1967

FISHERIES STATISTICS OF JAPAN 1967

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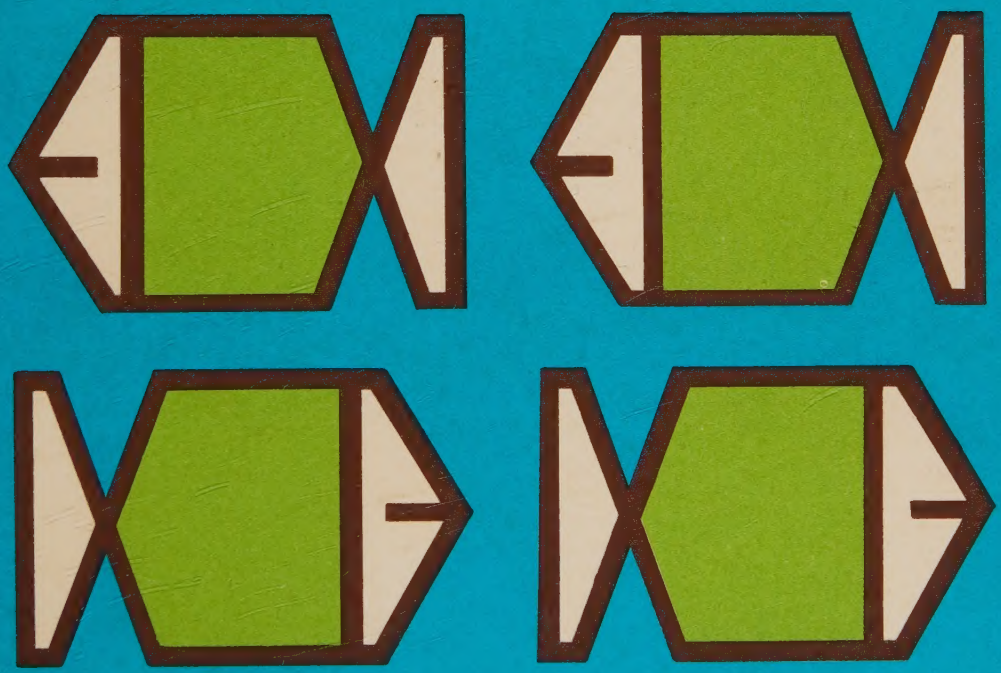

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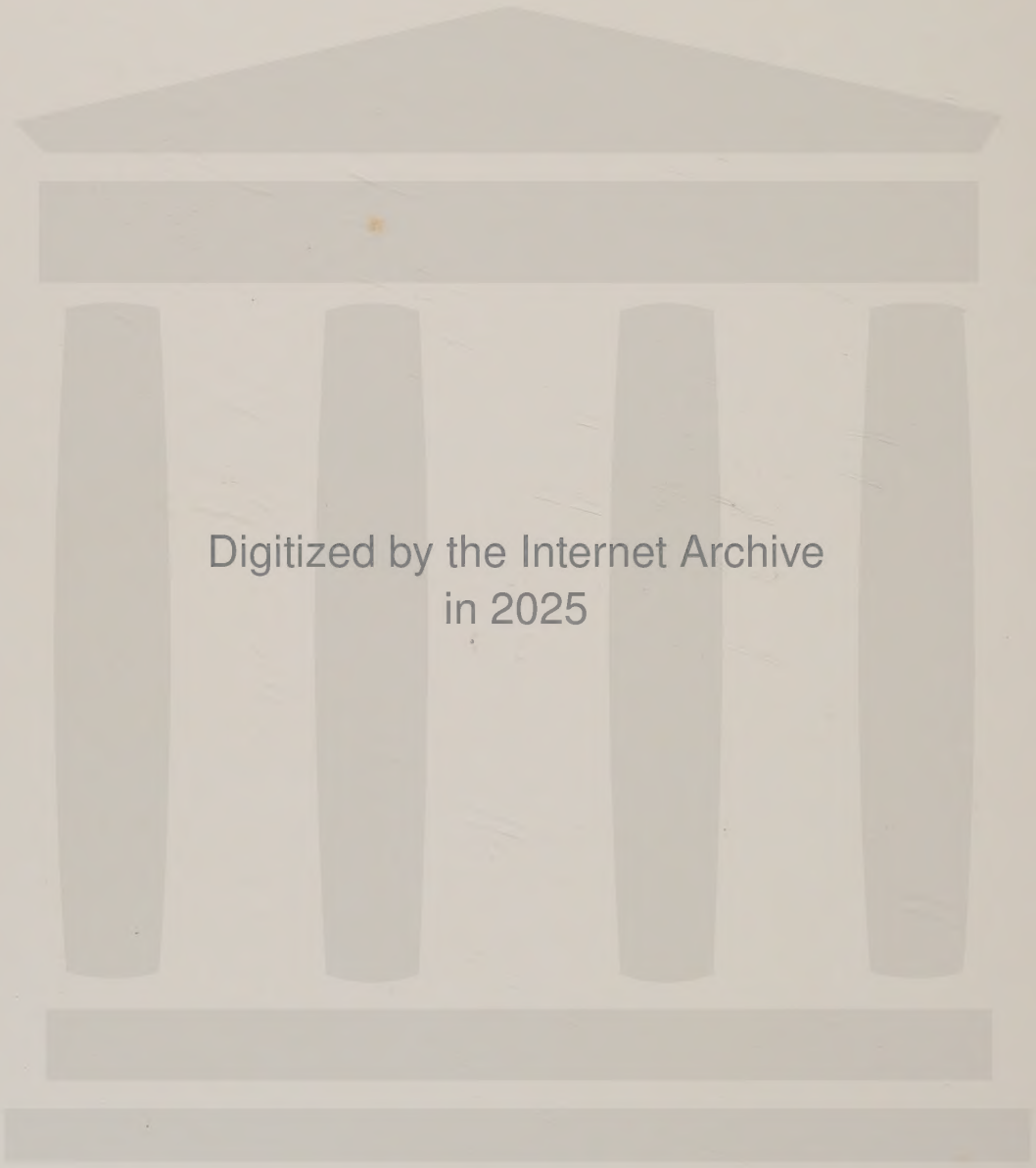
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FISHERIES STATISTICS OF JAPAN 1967

STATISTICS AND SURVEY DIVISION
MINISTRY OF AGRICULTURE AND FORESTRY
GOVERNMENT OF JAPAN

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FOREWORD

"Fisheries Statistics of Japan" is issued annually from 1963 edition by the Statistics and Survey Division, Ministry of Agriculture and Forestry.

This publication intends to introduce briefly for foreigneresthe present status of Japan's fisheries by means of statistics.

The statistics in this bulletin were mainly arranged both from "Annual Report of Catch Statistics on Fishery and Aquiculture in 1967" and "Annual Report of Marketing of Fishery Products in 1967" published by the above Division.

For the purpose of helping right understanding of foreign readers on the species caught by Japanese fishermen, illustrations with scientific and English names are given at the end of the volume.

We hope this publication would serve to show a true picture on salient features of Japan's fisheries today.

August, 1969

Michio Iwamoto
Director, Statistics and Survey Division,
The Ministry of Agriculture and Forestry,
Government of Japan.

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GENERAL REVIEW

1. Catch

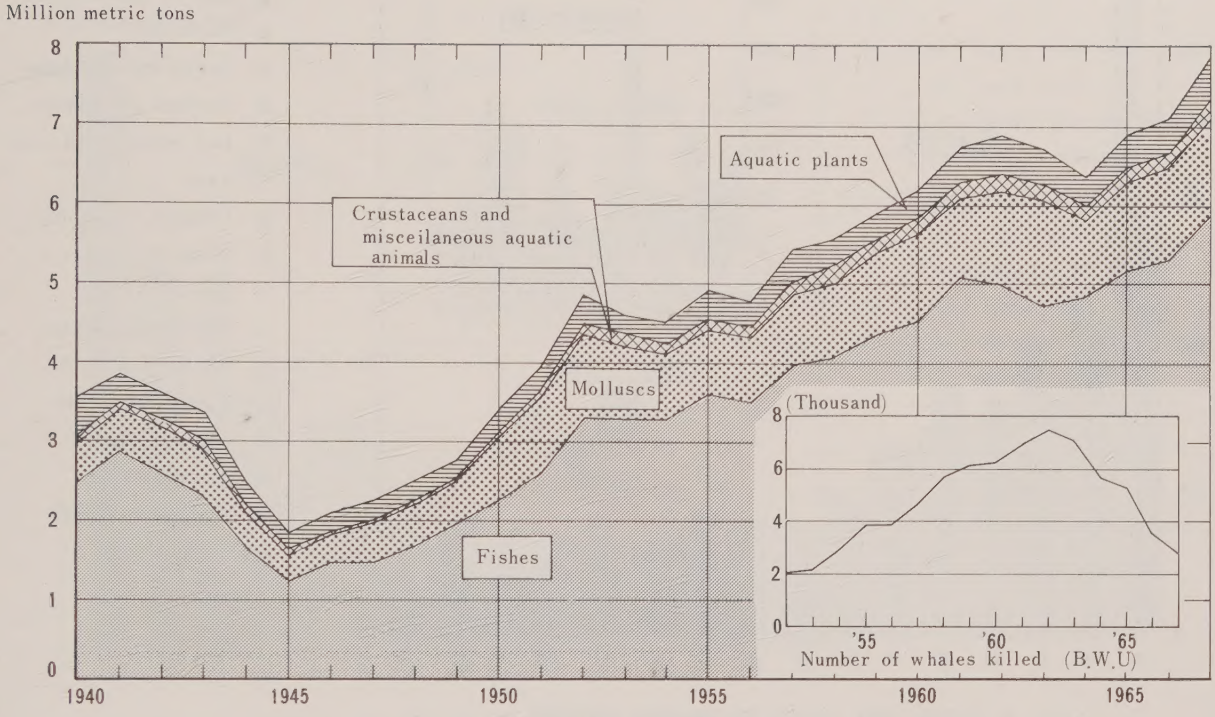


Fig. 1. JAPAN'S TOTAL CATCH, 1940–1967

A. Total catch for 1967

The 1967 total catch for fisheries and cultures (excluding whaling) was 7,851,000 tons. This figure represents 749,000 tons or 10.5 per cent more than the highest ever of the previous year, i.e. an all-time high. This big growth in catch was due largely to the increased Alaska pollack catch in the North Pacific among other reasons. Also, because of the rise of catch and price, the catch in value was $1,952,800,000 -- an increase of $213,100,000 or 12.2 per cent over the $1,739,700,000 of the previous year.

The catch by fisheries is as follows: The catch in marine fishery was 7,241,000 tons or $1,577,100,000. This shows an increase of 10.4 per cent in volume or 13.4 per cent in value over the previous year. The shallow sea water culture which presented a steady-going growth, too had a production of 470,000 tons or $299,400,000 in 1967; this indicates an increase of 16 per cent in volume or 10.3 per cent in value over the previous year. The catch for inland water fishery (largely fish culture) was 139,000 tons, i.e. almost the same with that of the previous year.

The catch by sea waters is as follows: In the Pacific where the catch accounts for over 90 per cent of total, there was a catch of 7,265,000 tons, i.e. an increase of 661,000 tons over 6,600,000 tons of the previous year. There was a catch of 131,000 tons in the Indian Ocean and 315,000 tons in the Atlantic Ocean, i.e. an increase of 44,000 tons and 43,000 tons, respectively over the previous year. Also, the inland waters had a catch of 139,000 tons.

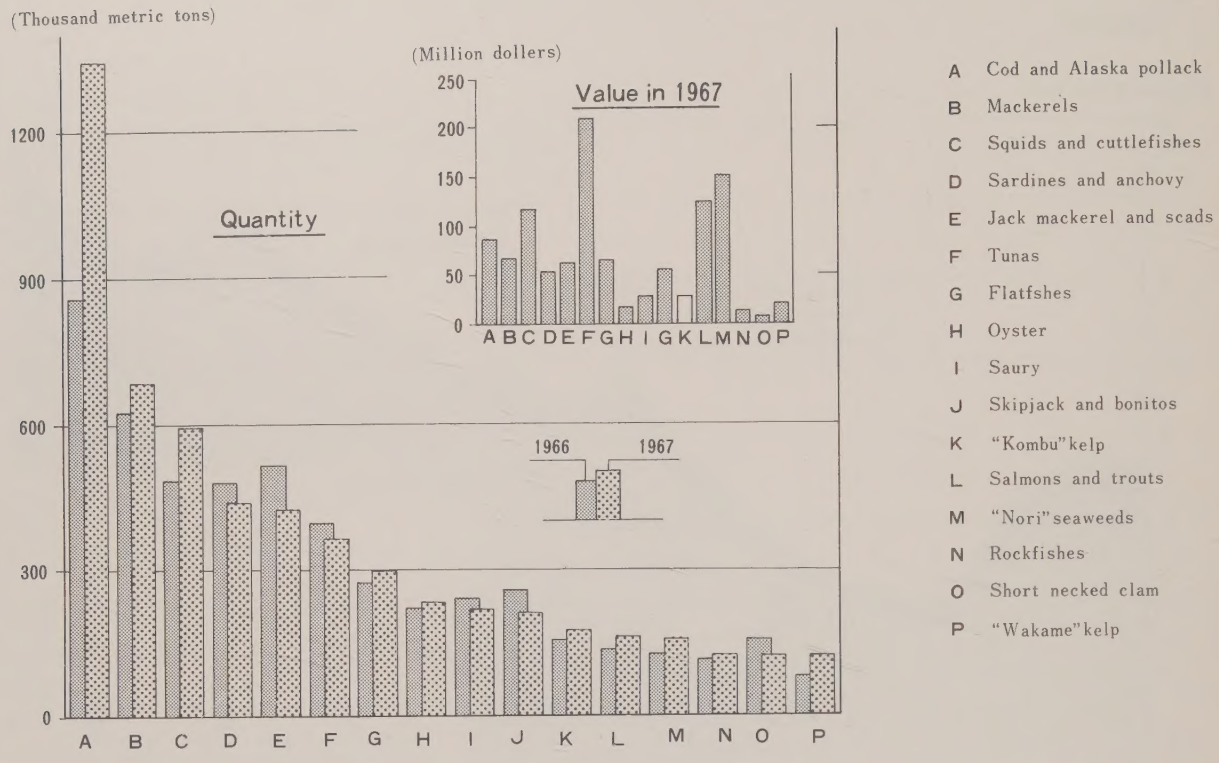


Fig. 2. CATCH AND VALUE BY MAJOR SPECIES

The total number of whales killed in whaling fishery was 21,088 or $70,100,000. Out of this, the number of baleen whale was 14,032 (2,774 in the unit of B.W.U.); that of sperm whale, 6,031; that of other small type whales, 1,025.

B. Development of catch

It was 4,820,000 tons in 1952 that the total catch for Japan's fisheries (including cultures) exceeded the 4,330,000 tons in 1936 (the highest catch during the pre-war days). It was after 1955 that the Japan's fishery came to a full-fledged expansion time; the catch in 1957 exceeded the level of 5,000,000 tons. Afterward, because of the development of offshore fishing grounds and long-distant fishing grounds as well as of the developed fishing technique, the catch went on increasing rapidly and came to 6,190,000 tons in 1960. Furthermore, as a result of the development of the North Pacific trawl fishing grounds, the catch arrived at 6,860,000 tons in 1962.

The Japan's fishery which went on prospering as mentioned above declined in 1963 due to the stagnant North Pacific trawl fishery, the leveling-off of the tuna longline fishery's growth and the poor haul in offshore fishery, etc. And in 1964, the catch was 6,350,000 tons, or a decrease of 8 per cent below the year 1962.

Coming to 1965, however, the offshore fishery recovered, the trawl fishing grounds off the west coasts of Africa were newly exploited and so on. Therefore, the total catch picked up and further amounted to the level of 7,000,000 tons due to the reexploitation of the North Pacific trawl fishing grounds after 1966 as well as to

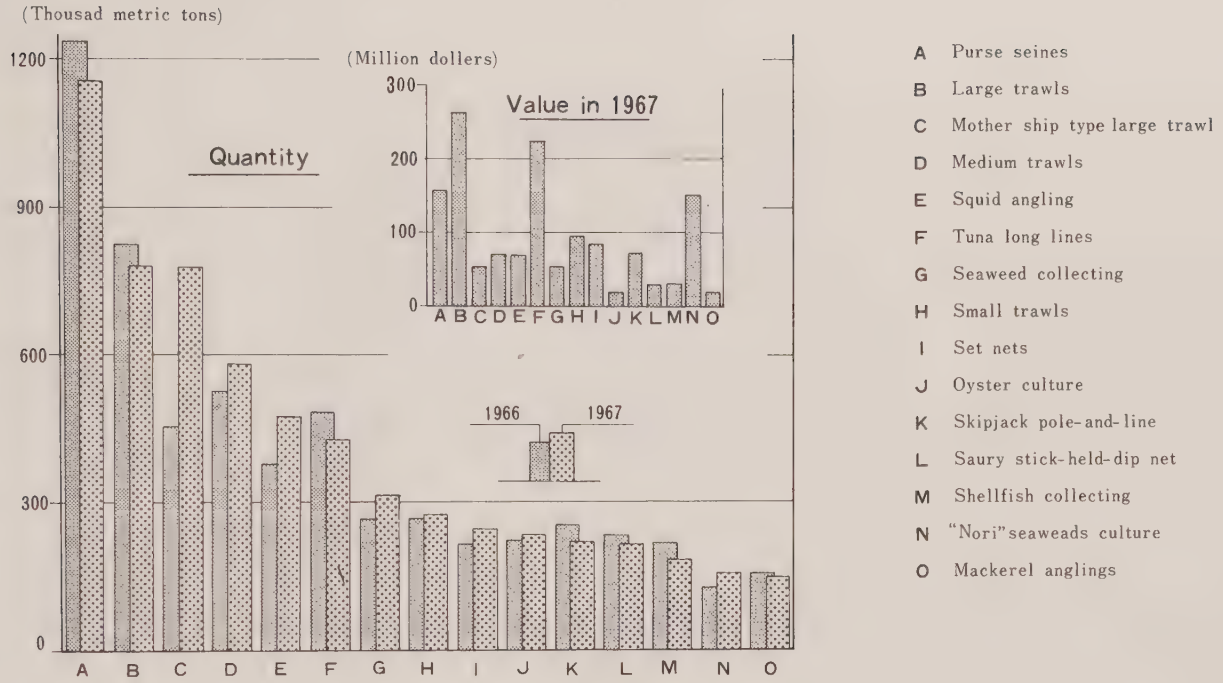


Fig. 3. CATCH AND VALUE BY MAJOR FISHRIES

the improved freezing-technique. And in 1967, the catch amounted to 7,850,000 tons, or a big increase over the previous year.

C. Catch by species

The breakdown of catch by species is as follows: 5,835,000 tons of fishes, 1,267,000 tons of molluscs, 149,000 tons of crustaceans and 534.000 tons of seaweeds; these respectively exceeded the level of the previous year.

The species which were outstandingly prominent in catch were as follows: Alaska pollack, mackerel, squid, flatfish, cod, hairtail, octopus, kelp, laver, "Wakame" (a kind of seaweeds), etc. On the other hand, the fish species which outstandingly declined in catch were as follows: jack mackerel, tuna, anchovy, saury, skipjack, short-necked clam, etc.

Alaska pollack

Almost all of Alaska pollack are caught by means of trawl nets, and the catch increased to 1,247,000 tons in 1967 from 285,000 tons in 1958, which means a rapid growth in the past ten years. Especially as a result of the improved freezing-technique in these years, Alaska pollack have become to be utilized as a raw material for processing, which has resulted in a considerable increase of catch by trawl nets in the North Pacific. The catch exceeded the level of 1,000,000 tons for the first

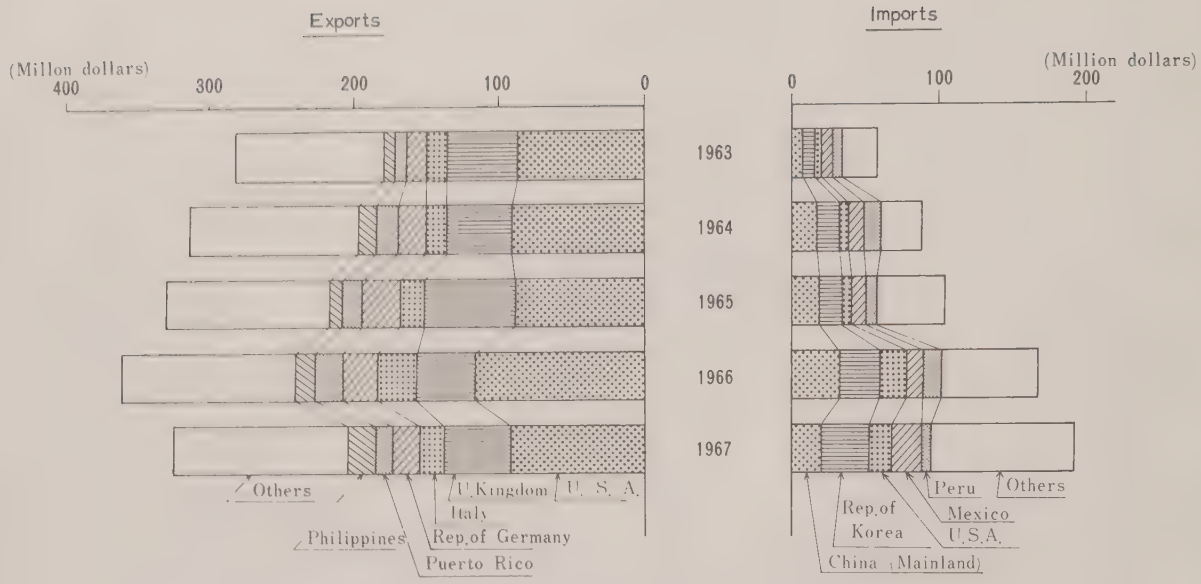


Fig. 4. VALUE OF FOREIGN TRADE OF FISHERIES PRODUCTS

time in 1967, i.e. it increased to 1,247,000 tons or $72,300,000. Out of the 1967 catch, the catch by mothership type trawling was 562,000 tons, or 2.1-fold that of the previous year (274,000 tons). Thus this catch accounted for about 45 per cent of total.

Flatfish

The catch amounted to 300,000 tons, or an increase of 27,000 tons (about 10 per cent) over the previous year. Also, the catch in value was $66,000,000, or an increase of $5,500,000 over the previous year. About a half of the catch was caught by mothership type trawling or large type trawling in the Pacific Ocean.

Jack mackerel

The jack mackerel which are one of major masscaught species in Japan reduced to 423,000 tons from 514,000 tons of the previous year. On the other hand, the catch in value was $63,700,000 because of the rise of fish prices, i.e. $11,000,000 more than that in the previous year. The reduced production this year was due to a decrease of the catch by surrounding nets in the East China Sea.

Mackerel

The catch this year was 687,000 tons, an all-time high; this is 18,000 tons more than the 669,000 tons of catch in 1965, the highest ever. Also, the catch in

value was $67,300,000. The catch in value also made a new record, i.e. it was $7,600,000 more than the $59,600,000 of 1965, the highest ever.

Mackerel are caught by surrounding nets or by angling majorly in the near sea, but the proportions of the surrounding nets which are good in catching efficiency went on increasing year after year; it was 70 per cent this year, i.e. 481,000 tons.

Saury

The catch was 220,000 tons this year, or 22,000 tons less than that in the previous year. The catch in value was $29,500,000 -- $400,000 more than that of the previous year. The catch of saury was at the level of 500,000 tons both in 1958 and 1959, but it decreased by an by. And since 1964 it has remained at a low level of 200,000 tons.

Skipjack

The over 85 per cent of total skipjack-catch is caught by pole and line fishing; the total catch was 182,000 tons or $50,900,000. The catch this year was 47,000 tons less than the catch of the previous year which was exceptionally a good haul.

Tunas

The catch of tunas (as an important export species) was 367,000 tons or $208,700,000; this means a decrease of 31,000 tons in volume or an increase of $4,800,000 in value over the previous year. To see by species, yellowfin tuna's catch was 94,000 tons -- a decrease of 35,000 tons below the previous year; this means a lowest record since 1957. Also, the albacore-catch was less than the catchlevel (100,000 tons) which had lasted since 1962, that is, down to 98,000 tons.

The catch of bluefin tuna was 55,000 tons -- an increase of 9,000 tons over the previous year; the bigeye tuna-catch was almost the same with that of the previous year.

To see by water areas, the catch in the Pacific was 235,000 tons, occupying 64 per cent of total tuna-catch -- an increase of about 20,000 tons over the previous year. Also, in the Indian Ocean, the catch was 93,000 tons -- an increase of about 23,000 tons over the previous year. In the Atlantic, however, it turned out that the catch was 39,000 tons against the 112,000 tons in the previous year; this represents a big decrease. The big decrease of tuna-catch in the Atlantic is due mainly to the reduced number of tuna longline fishing boats (about a half that of the previous year which went out fishing to the Atlantic waters)

Squid

The squid-catch was 597,000 tons -- an increase of 112,000 tons (23 per cent) over the previous year (485,000 tons). The catch was $114,000,000 in value -- $11,400,000 more than the 127,000,000 of the previous year.

The catch of squid in the near sea was 634,000 tons in 1963, 290,000 tons in 1964, 442,000 tons in 1965, 430,000 tons in 1966 and 532,000 tons in 1967; this indicates a keen fluctuation depending on the years.

On the other hand, the cuttlefish caught in the fishing grounds off the west coats of Africa went on increasing steadily in catch year after year.

2. Export and Import

A. Import

The total import of fishery products went on increasing year after year, and reached $191,600,000 in 1967.

To see in import value, the fresh and frozen fishery products were the most in value, i.e. $117,900,000 (180,000 tons); out of which shrimp occupied 67 per cent ($79,900,000).

Also, the shrimp import was 44,000 tons in volume, which account for 40 per cent of the domestic consumption.

On the other hand, the import of fishmeal was at its peak in 1965, but afterward it decreased on year by year, and in 1967 it was $13,500,000 (87,000 tons).

B. Export

The total export was $326,100,000 -- a decrease of 10 per cent below the previous year. This was because the major export of frozen tuna and marlin to America and Puerto Rico was stagnant, i.e. the export remained to be $50,100,000 or 113,000 tons (57 per cent of that of the previous year) and that the export of cultured pearl reduced and remained to be 85 per cent ($55,000,000) of that of the previous year.

STATISTICAL TABLES

1. SUMMARY OF CATCH BY FISHERY SECTOR

Quantity : Thousand metric tons.
Value : Million dollars.

Year	Sea Fisheries		Shallow Sea Cultures		Inland Water Fisheries		Inland Water Cultures		Total		Whalings	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Numbers	Value
1940	3,427	---	78	---	---	---	19	---	3,526	----	9,628	---
1945	1,750	---	61	---	---	---	12	---	1,824	----	531	---
1950	3,255	---	48	---	63	---	5	---	3,373	----	5,332	---
1951	3,774	---	88	---	60	---	6	---	3,930	----	6,335	---
1952	4,646	---	113	---	53	---	9	---	4,823	----	7,816	---
1953	4,387	---	144	---	57	---	8	---	4,598	----	6,631	---
1954	4,304	---	145	---	82	---	9	---	4,541	----	9,591	---
1955	4,658	---	154	---	82	---	11	---	4,907	----	11,866	---
1956	4,488	558.9	180	57.2	90	17.2	13	8.3	4,772	641.7	14,124	44.4
1957	5,067	639.9	244	48.4	81	20.3	14	8.6	5,407	717.1	15,439	59.2
1958	5,198	627.0	214	57.1	78	19.4	15	10.1	5,506	713.7	19,922	54.3
1959	5,568	704.4	225	65.5	75	19.3	15	10.1	5,884	799.3	20,527	61.3
1960	5,817	828.5	284	93.8	74	22.3	15	13.2	6,192	957.8	19,649	65.0
1961	6,287	927.9	322	126.5	81	25.7	18	17.6	6,710	1,097.7	20,845	74.1
1962	6,397	990.8	362	149.4	84	26.0	20	18.9	6,864	1,185.0	22,237	74.6
1963	6,200	1,107.8	389	180.5	84	27.2	23	26.1	6,698	1,341.7	22,370	85.8
1964	5,868	1,121.9	362	201.1	89	28.2	29	30.9	6,350	1,382.3	24,409	89.7
1965	6,382	1,254.5	380	227.6	113	27.9	33	34.9	6,908	1,544.9	26,986	104.4
1966	6,558	1,390.1	405	271.5	103	32.6	36	45.5	7,103	1,739.8	22,784	82.0
1967	7,241	1,577.1	470	299.4	97	30.2	42	46.2	7,851	1,952.9	21,088	70.1

2. SUMMARY OF CATCH BY SPECIES

Unit : Thousand metric tons.

Year	Sea Waters					Inland waters					Total
	Fishes	Molluscs	Crus-taceans	Aquatic plants	Others	Fishes	Molluscs	Crus-taceans	Aquatic plants	Others	
1940	2,435	441	35	523	---	29	---	---	---	---	3,526
1945	1,222	313	31	228	---	13	---	---	---	---	1,824
1950	2,210	760	49	257	28	32	12	1	23	1	3,373
1951	2,572	922	56	290	22	30	12	1	23	2	3,930
1952	3,268	1,033	72	361	27	35	13	1	12	1	4,823
1953	3,253	889	70	292	27	37	15	1	12	2	4,598
1954	3,239	786	99	287	38	44	14	2	31	1	4,541
1955	3,541	802	106	310	53	52	14	3	25	1	4,907
1956	3,441	774	95	304	52	60	16	3	24	3	4,772
1957	3,877	894	108	402	27	64	24	5	2	4	5,407
1958	4,017	893	119	339	42	62	26	3	1	4	5,506
1959	4,267	1,027	119	337	44	59	26	1	1	4	5,884
1960	4,463	1,078	126	386	51	60	25	1	1	3	6,192
1961	5,015	985	138	425	49	66	28	2	1	3	6,710
1962	4,911	1,158	149	501	41	69	30	2	1	3	6,864
1963	4,653	1,303	159	425	51	72	33	1	1	2	6,698
1964	4,745	925	153	361	48	80	35	1	0	2	6,350
1965	5,093	1,082	132	406	52	86	56	1	0	2	6,908
1966	5,232	1,097	142	436	57	86	50	1	0	2	7,103
1967	5,723	1,225	149	534	60	92	42	2	0	2	7,851

3. CATCH IN QUANTITY AND VALUE BY SPECIES

1965～1967

Quantity ; Thousand metric tons.
Value ; Thousand dollars.

Species	1965		1966		1967	
	Quantity	Value	Quantity	Value	Quantity	Value
Grand Total	6,907.7	1,544,886	7,102.6	1,739,786	7,850.9	1,952,850
Inlandwater fishes	41.1	17,553	43.4	20,586	46.0	19,461
River eel	18.8	26,142	19.8	35,881	22.8	35,258
Salmons, trouts, smelts, etc.	184.5	118,150	162.3	115,517	186.5	137,192
Flounders, halibuts, soles, etc.	216.3	48,025	273.0	60,439	299.7	65,950
Cods, hakes, haddocks, etc.	781.0	65,833	860.6	66,403	1,343.1	86,175
Alaska Pollack	690.9	52,864	774.8	55,031	1,247.0	72,283
Pacific cod	90.1	12,969	85.8	11,372	96.1	13,892
Redfishes, basses, congers, etc.	572.7	112,742	557.6	129,744	552.4	129,592
Atka mackerel	107.3	7,269	106.0	8,705	81.9	6,353
Croakers	100.7	24,903	98.3	27,064	84.6	26,397
Gurnards	14.1	2,311	16.1	2,508	18.8	3,239
Launce	111.7	5,383	71.2	5,183	102.5	4,806
Lizardfishes	23.1	6,003	23.2	6,581	24.9	7,239
Rockfishes	107.8	14,058	128.1	19,611	132.6	15,933
Sandfish	32.3	3,022	36.1	2,956	32.6	3,069
Sea-breams	40.2	36,394	39.2	41,261	40.6	45,006
Jacks, mullets, etc.	882.3	137,711	845.9	142,661	748.6	165,019
Dolphinfishes	7.5	1,481	12.6	2,278	13.4	2,822
Flying fishes	12.0	2,461	10.0	2,508	10.3	2,672
Jack mackerel	526.9	52,731	477.1	49,667	327.9	53,956
Saury	231.4	26,589	241.8	29,008	220.1	29,450
Scads	33.6	3,511	37.3	3,022	45.3	9,731
Yellowtails	58.6	45,283	55.9	50,275	69.8	59,889
Herrings, sardines, anchovies, etc.	494.4	50,269	496.1	48,024	469.7	59,908
Japanese anchovy	405.9	34,636	407.7	30,550	365.2	34,117
Japanese pilchard	9.2	1,964	13.5	2,811	16.8	4,539
North Pacific herring	50.2	9,231	48.6	10,436	63.7	16,351
Round Herring	29.1	4,439	26.3	4,225	24.0	4,872
Tunas, bonitos, skipjacks	584.1	208,614	644.4	254,661	563.5	257,247
Albacore	127.3	38,817	106.3	47,003	98.0	40,353
Bigeye tuna	110.5	45,894	105.7	52,108	105.9	62,939
Bluefin tuna	55.9	33,350	45.2	32,419	54.7	49,494
Frigate mackerel	30.7	3,914	29.7	3,584	29.3	4,394
Skipjack	136.1	36,331	229.1	52,692	181.9	50,917
Yellowfin tuna	123.6	50,308	128.4	66,856	93.7	49,150
Mackerels, billfishes, cutlessfishes	812.6	126,306	758.2	122,936	836.4	128,514
Blue and Black marlin	27.7	14,511	24.8	13,606	20.4	12,097
Hairtail	47.7	15,092	45.4	16,156	68.3	12,172
Mackerels	668.6	59,647	624.4	57,097	687.5	67,253
Sailfish	14.1	4,469	10.8	3,833	11.2	4,103
Striped marlin	28.1	16,800	24.5	15,836	23.5	18,100
Swordfish	20.6	11,356	21.7	11,525	18.7	9,975

Quantity ; Thousand metric tons.
Value ; Thousand dollars.

Species	1965		1966		1967	
	Quantity	Value	Quantity	Value	Quantity	Value
Sharks, rays, chimaeras	**66.9**	**9,497**	**71.1**	**10,100**	**67.6**	**9,264**
Sharks	56.6	8,661	60.4	9,242	57.0	8,300
Rays	10.3	836	10.7	858	10.6	964
Unsorted and unidentified fishes	**524.9**	**149,864**	**584.9**	**168,431**	**699.3**	**227,228**
Crustaceans	**134.2**	**74,164**	**144.7**	**85,983**	**151.1**	**89,383**
Freshwater shrimps	2.5	472	2.6	531	2.3	856
King crab	25.9	13,439	31.0	17,906	30.3	18,789
"Kuruma" prawn	3.1	11,167	2.6	11,678	2.4	12,067
Queen crab (Zuwai-gani)	16.4	5,953	19.5	7,217	31.9	10,833
Spiny lobster	1.6	4,414	1.6	4,539	1.6	5,694
Shrimps, lobsters	63.4	32,344	66.2	36,514	58.6	31,864
crabs	21.3	6,375	21.2	7,600	24.0	9,281
Molluscs	**1,138.1**	**161,247**	**1,147.6**	**193,778**	**1,266.8**	**219,978**
Freshwater molluscs	56.2	1,533	50.3	1,086	42.0	900
Abalones	4.3	6,503	5.6	9,917	6.0	10,397
Common scallop	5.7	2,089	7.4	2,450	6.8	2,419
Hard clams	13.7	2,203	10.0	2,492	6.2	2,631
"Mogai" clam	31.1	3,233	22.2	2,525	40.7	3,942
Octopuses	78.1	31,794	65.8	26,014	98.2	39,400
Oysters	210.6	15,997	221.1	17,992	232.2	17,611
Short necked clams	121.2	5,647	157.5	5,936	121.6	6,764
Squids and cuttlefishes	499.4	74,369	485.0	102,650	596.8	114,044
Sea-cucumbers, sea-urchins, acidians	**29.2**	**6,531**	**32.9**	**6,928**	**35.9**	**8,728**
Turtles, frogs, etc.	**20.2**	**2,625**	**22.8**	**3,350**	**27.3**	**4,578**
Pearls, shells, sponges, corals, etc.	**0.1**	**87,642**	**0.1**	**115,422**	**0.1**	**95,792**
Aquatic plants	**406.3**	**139,939**	**436.8**	**158,933**	**534.0**	**213,583**
Freshwater aquatic plants	0.3	53	0.3	53	0.3	53
agar-agar	15.2	3,106	16.8	5,825	21.3	5,369
"Kombu" Kelp	126.7	15,483	155.8	21,628	175.9	29,711
"Nori" seaweed	140.8	101,822	128.4	112,389	157.6	150,853
"Wakame" seaweed	74.4	14.217	79.7	12,722	121.6	21,067

4. CATCH IN QUANTITY AND VALUE BY TYPE OF FISHERIES

Quantity ; Metric tons
Value ; Thousand dollars

Type of Fisheries	1965		1966		1967	
	Quantity	Value	Quantity	Value	Quantity	Value
Sea Fisheries 1]						
Distant Waters						
.King crab gill net	24,678	13,739	24,851	16,078	23,821	16,967
Salmon drift gill net	45,430	52,183	38,930	41,097	42,544	45 431
Tuna long lines	441,406	171,678	403,370	188,814 2]	354,390	188,014 2]
Large trawls	1,089,701	174,317	1,276,906	226,603 2]	1,839,530	312,972 2]
Skipjack pole-and-line	131,952	36,467	168,279	43,986	142,294	45,636
Total	**1,603,656**	**448,383**	**1,912,336**	**516,578**	**2,402,579**	**609,022**
Coastal and Offshore Waters						
Medium trawls	574,291	84,761	528,531	67,875	583,417	68,522
Small trawls	252,994	70,839	268,839	85,442	276,112	91,294
Purse seines	1,275,835	136,203	1,234,875	133,086	1,153,167	155,694
Other surrounding nets	40,153	7,761	41,249	8,381	46,386	9,983
Salmon drift gill net	59,730	41,931	50,475	41,569	58,043	50,922
Other gill nets	210,650	51,892	253,114	61,581	305,484	68,858
Tuna long line	58,381	26,658	78,942	38,119	74,951	34,131
Other long lines	164,918	48,786	149,900	51,608	164,928	61,331
Saury stick-held-dip net	226,700	26,136	234,739	27,744	216,124	26,911
Other lift nets	111,162	11,775	90,965	10,875	94,486	12,219
Skipjack pole-and-line	62,896	16,242	90,375	22,111	78,329	24,025
Squid angling	386,955	44,347	378,502	68,119	471,958	64,906
Other anglings	236,517	52,386	230,538	54,200	231,007	61,842
Set nets	221,547	67,339	212,744	67,397	246,134	81,936
Shellfish collectings	192,437	22,378	217,974	26,417	182,400	27,503
Seaweed collectings	248,118	35,778	265,670	41,153	313,351	53,400
Others	325,178	60,903	317,878	67,892	342,514	74,556
Total	**4,777,973**	**806,161**	**4,645,310**	**873,569**	**4,838,791**	**968,033**
Total	**6,381,629**	**1,254,494**	**6,557,646**	**1,390,147**	**7,241,370**	**1,577,056**
Shallow Sea Cultures 3]						
Pearl culture	100	86,719	118	102,172	127	93,597
Oyster culture	210,603	15,997	221,139	17,992	232,200	17,611
"Nori" seaweed culture	140,753	102,031	128,440	112,389	157,550	150,856
"Wakame" kelp culture	17,733	2,314	46,576	4,569	58,080	8,544
Others	10,611	20,522	9,022	34,367	22,277	28,756
Total	**379,800**	**227,583**	**405,295**	**271,489**	**470,234**	**299,364**
Inland Water Fisheries						
Total	**113,148**	**27,914**	**103,266**	**32,647**	**97,421**	**30,219**
Inland Water Cultures						
Total	**33,094**	**34,881**	**36,375**	**45,500**	**41,852**	**46,214**
GRAND TOTAL 1]	**6,907,671**	**1,544,872**	**7,102,582**	**1,739,784**	**7,850,877**	**1,952,850**

Note ; 1] Excluding whalings.

2] Including value of medium trawls operated on the North Pacific Ocean.

3] Total amounts of mother pearl shells, seeds of seaweeds and larva of oysters are excluded from the total quantity of products, though each value of them are included in value of each cultures.

5. CATCH BY OCEAN, AND BY SPECIES

Unit ; Metric ton.

Species	1963	1964	1965	1966	1967
GRAND TOTAL	6,698,474	6,350,706	6,907,671	7,102,582	7,850,877
Inland waters	108,237	118,981	146,244	139,641	139,273
Fishes	71,632	80,481	86,517	85,587	92,532
Molluscs	33,152	35,029	56,192	50,329	41,982
Others	3,453	3,471	3,535	3,725	4,759
Pacific Ocean	6,286,084	5,898,247	6,364,724	6,603,770	7,264,988
Fishes	4,377,084	4,442,897	4,794,825	4,929,670	5,397,100
Alaska pollack	395,307[1]	682,757	690,895	774,789	1,247,002
Albacore	70,202	61,873	70,464	65,601	67,830
Atka mackerel	150,393	204,888	107,288	106,013	81,884
Bigeye tuna	100,006	81,501	66,489	70,647	75,271
Bluefin tuna	31,981	31,361	24,589	28,904	25,951
Cod	166,549	37,819	39,591	42,645	54,440
Croakers	103,184	72,778	99,958	97,624	84,303
Flatfishes	232,150	260,310	215,705	272,722	299,102
Jack mackerel	447,338	496,451	526,885	477,082	324,024
Japanese anchovy	320,609	295,897	405,906	407,665	365,240
Mackerels	465,128	495,664	668,574	624,371	687,016
Marlins	60,574	63,340	62,998	60,621	54,680
"Menuke" rockfishes	39,915	58,708	92,483	113,034	116,863
Salmons	73,603	78,686	79,264	80,564	77,574
Saury	384,548	210,689	231,377	241,840	220,087
Sea breams	18,719	37,397	36,853	32,669	32,239
Sharks	---	16,343	13,444	16,062	13,103
Skipjack	108,266	166,719	135,939	224,586	177,890
Trouts	74,911	38,692	66,399	46,064	70,845
Yellow fin tuna	66,488	71,119	66,110	78,995	52,861
Others	1,067,213	979,900	1,093,614	1,067,172	1,268,895
Crustaceans	158,476	152,700	124,733	141,164	147,842
King crab	27,026	28,267	24,678	24,888	23,267
Other crabs	75,743	67,685	47,812	69,672	63,237
Shrimps	55,707	56,748	52,243	46,604	61,338
Molluscs	1,275,470	893,510	990,288	1,041,686	1,125,671
Clams	203,465	171,860	171,817	194,653	173,442
Octopuses	56,903	56,523	44,706	42,953	42,911
Oysters	240,144	240,564	210,603	221,139	232,200
Squids and cuttlefishes	646,815	309,038	441,588	451,935	552,659
Others	128,143	115,525	121,574	131,006	124,459
Miscellaneous aquatic animals	47,420	46,515	46,292	52,475	59,695
Aquatic mammals	1,909	1,679	2,277	2,374	1,033
Aquatic plants	425,725	360,951	406,309	436,401	533,647
"Kombu" kelp	151,820	142,712	126,680	155,757	175,883
"Nori" seaweeds	144,531	111,851	140,753	128,440	157,550
"Wakame" kelp	65,284	48,406	74,420	79,743	121,613
Others	64,090	57,982	64,456	72,461	78,601

Unit ; Metric ton.

Species	1963	1964	1965	1966	1967
Indian Ocean	100,345	81,429	91,051	87,405	131,354
Fishes	100,341	81,429	91,048	87,405	127,278
Albocore	15,628	15,263	14,243	12,369	15,278
Bigeya tuna	15,194	13,419	15,459	17,422	21,890
Bluefin tuna	23,215	22,039	21,703	13,404	27,811
Marlins	8,842	8,451	11,721	10,926	15,839
Sharks	2,059	4,124	2,439	2,782	4,319
Yellowfin tuna	26,669	17,268	20,860	27,180	27,823
Others	8,734	865	4,623	3,322	14,318
Others	4	0	3	0	4,076
Atlantic Ocean	203,808	252,049	305,652	271,766	315,262
Fishes	183,410	220,955	233,673	215,629	219,202
Albacore	29,692	39,451	42,634	28,284	14,872
Bigeye tuna	14,490	17,336	28,538	17,644	8,766
Bluefin tuna	7,809	12,626	9,612	2,871	891
Marlins	12,889	14,243	15,723	10,176	3,173
Sea breams	19,602	9,925	2,708	2,900	2,143
Sharks	575	2,246	3,910	3,665	1,210
Skipjack	4,551	96	22	4,385	3,743
Yellowfin tuna	37,717	35,106	36,619	22,253	13,050
Others	56,085	89,926	93,907	123,451	171,354
Molluscs	20,292	30,784	71,979	55,671	95,303
Octopuses	---[5]	10,448	33,350	22,586	54,845
Squids and cuttle fishes	20,292	20,336	38,629	33,085	40,458
Others	---[5]	-	-	-	-
Others	106	310	---	466	757

Note 1 Including in cod catch.

2 Including in the catch of the other fishes.

6. CATCH BY OCEAN, AND BY TYPE OF FISHERIES

Unit ; Metric ton.

Species	1963	1964	1965	1966	1967
GRAND TOTAL	**6,698,474**	**6,350,706**	**6,907,671**	**7,102,582**	**7,850,877**
Inland waters	108,237	118,981	146,244	139,641	139,273
Fisheries	84,866	89,201	113,148	103,266	97,421
Aquatic cultures	23,371	29,780	33,096	36,375	41,852
Pacific Ocean	6,286,084	5,898,247	6,364,724	6,603,770	7,264,988
Mother ship type large trawl	336,630	438,150	432,096	539,202	778,411
Large trawl	413,627	402,555	520,848	559,247	781,131
Medium trawl	655,237	677,017	574,290	528,531	583,417
Small trawl	208,916	230,311	252,995	268,839	276,112
Purse seine	905,335	1,011,512	1,275,835	1,234,729	1,152,833
Mother ship type salmon drift gill net	46,269	44,449	45,430	38,930	42,544
Salmon drift gill net	61,800	54,344	59,730	50,476	58,043
Mother ship type king crab gill net	27,026	28,267	24,678	24,851	23,821
Other gill nets	182,819	251,930	210,650	252,758	304,412
Saury stick-held dip net	376,816	202,309	226,700	234,739	216,124
Set nets	215,524	219,241	221,546	212,746	246,134
Mother ship type tuna long line	16,485	16,025	5,014	503	2,402
Tuna long line	307,272	283,968	263,240	307,673	267,836
Skipjack pole-and-line	158,103	183,601	194,848	252,073	213,110
Squid angling	580,209	237,163	386,955	378,502	471,958
Other anglings	244,144	238,739	236,517	230,402	230,818
Shellfish collecting	250,702	203,284	192,437	217,975	182,400
Seaweed collecting	277,539	244,218	248,118	265,670	313,351
Others	1,021,631	931,164	992,797	1,005,924	1,120,131
Indian Ocean	100,345	81,429	91,051	87,405	131,354
Large trawl	196	2	395	11	13,153
Mother ship type tuna long line	17,245	11,604	11,807	15,482	21,252
Tuna long line	82,716	69,823	78,846	71,912	96,940
Other	188	-	3	-	10
Atlantic Ocean	203,808	252,049	305,652	271,766	315,262
Large trawl	93,920	127,983	164,772	178,445	266,835
Mother ship type tuna long line	41,823	54,590	54,850	38,309	18,257
Tuna long line	68,065	69,476	86,030	48,432	22,654
Others	-	-	-	6,579	7,515

7. CATCH AND EFFORT BY OCEAN, AND BY TYPE

A. PACIFIC OCEAN

Unit ; day, metric ton.

Item	1963	1964	1965	1966	1967
Mother ship type large trawl					
No. of trips	294	22	28	34	24
No. of days operated	35,222	2,615	3,228	4,287	2,943
Total catch	336,630	438,150	2,096	539,202	778,411
Alaska pollack	113,696	178,789	~ J,082	273,891	561,779
Cod	18,168	19,748	20,717	20,622	32,415
Flatfishes	95,670	120,936	59,348	98,002	111,608
"Menuke" rockfishes	25,456	44,046	71,093	105,537	28,934
Shrimps	31,612	20,883	8,860	8,127	3,287
Others	52,028	53,748	41,996	33,023	40,388
Large trawl					
No. of trips	5,203	4,845	4,619	5,620	5,557
No. of days operated	118,402	118,127	115,295	147,560	147,700
Total catch	410,813	400,193	516,691	555,978	780,004
Alaska pollack	23,523	35,708	87,513	154,676	252,712
Cod	11,166	18,071	18,874	14,604	18,481
Croakers	98,823	69,177	96,676	94,349	80,502
Flatfishes	33,608	36,288	37,996	45,748	51,816
Gurnards	7,971	9,028	5,573	7,390	7,216
Hairtail	31,280	39,287	40,678	35,096	56,499
"Menuke" rockfishes	14,487	14,659	21,390	7,404	87,684
Squids and cuttlefishes	13,020	18,818	19,141	21,624	20,214
Others	176,935	159,157	188,850	175,087	204,880
Medium trawl					
No. of trips	91,601	88,078	82,039	79,432	74,502
No. of days operated	227,941	210,701	217,448	185,974	176,859
Total catch	655,237	677,017	574,290	528,531	583,417
Alaska pollack	306,152	299,356	268,743	226,662	257,652
Atka mackerel	119,913	158,502	68,278	56,838	55,830
Cod	20,486	17,157	13,151	17,374	18,233
Flatfishes	57,511	50,366	68,735	72,658	76,994
Squids and cuttlefishes	3,313	4,984	6,092	5,083	5,523
Shrimps	7,143	4,867	7,254	8,713	5,908
Others	140,719	141,785	142,037	141,203	163,277
Small trawl					
No. of trips	2,694,215	2,721,846	2,712,614	2,789,401	2,687,761
No. of days operated	2,724,785	2,763,804	2,745,315	2,835,808	2,721,920
Total catch	208,916	230,311	252,995	268,839	276,112
Flatfishes	18,928	22,033	21,097	25,008	25,274
Launce	10,250	12,294	18,775	9,879	11,047
Shellfish	58,265	59,755	77,064	81,940	87,668
Shrimps	29,141	35,097	34,221	39,358	32,992
Others	92,332	101,132	101,838	112,654	119,131

OF FISHERIES

(Continued) Unit ; day, metric ton.

Item	1963	1964	1965	1966	1967
Purse seines					
No. of trips	99,558	100,366	109,393	119,759	122,960
No. of days operated	123,971	129,575	138,000	151,068	153,969
Total catch	905,335	1,011,512	1,275,835	1,234,729	1,152,833
Jack mackerel	332,422	421,560	469,072	440,256	264,156
Japanese anchovy	185,205	188,661	255,030	267,382	235,830
Mackerels	259,359	279,406	453,553	399,997	481,378
Round herring and sardins	64,830	34,244	26,997	29,593	26,226
Scads	11,176	10,778	19,387	30,216	79,157
Skipjack	9,149	24,950	4,637	10,844	10,835
Tunas	10,174	11,693	14,007	14,665	9,472
Others	33,020	40,220	33,152	41,776	45,779
Mother ship type salmon drift gill net					
No. of trips	369	369	369	369	369
No. of days operated	---	33,592	28,519	23,907	25,316
Total catch	46,269	44,449	45,430	38,930	42,544
Salmons	36,677	41,401	39,349	35,654	31,914
Trouts	9,590	3,048	6,081	3,276	10,630
Others	2	-	-	-	-
Salmon drift gill net					
No. of trips	31,231	34,112	41,788	31,255	41,288
No. of days operated	71,698	70,778	75,953	62,998	72,121
Total catch	61,800	54,344	59,730	50,476	58,043
Salmons	20,168	20,632	21,426	26,661	27,014
Trouts	41,176	24,390	38,014	23,428	30,678
Others	456	9,322	290	387	351
Mother ship type king crab gill net					
No. of trips	6	6	6	6	6
No. of days operated	---	997	890	991	1,089
Total catch	27,026	28,267	24,678	24,851	23,821
King crab	27,026	28,267	23,197	24,851	23,267
Queen crab	-	-	-	-	554
Others	-	-	1,481	-	-
Saury stick-held dip net					
No. of trips	51,029	30,743	38,544	29,208	36,437
No. of days operated	94,598	66,450	72,608	68,595	77,532
Total catch	376,816	202,309	226,700	234,739	216,124
Saury	376,299	202,302	226,683	234,623	216,100
Others	517	7	17	116	24

Unit ; day, metric ton.

Item	1963	1964	1965	1966	1967
Mother ship type tuna long line					
No. of trips	116	104	38	1	3
No. of days operated	10,728	11,841	3,747	105	387
Total catch	16,485	16,025	5,014	503	2,402
Albacore	4,295	5,776	1,420	1	136
Bigeye tuna	2,561	1,925	776	306	434
Blue and black marlins	1,240	874	273	18	180
Bluefin tuna	93	24	12	-	-
Sail fish	397	233	76	30	37
Sharks	---	1,085	404	29	235
Striped marlin	857	717	133	35	38
Swordfish	245	239	104	38	12
Yellowfin tuna	4,127	4,699	1,719	40	1,020
Others	2,670	453	97	6	310
Tuna long line					
No. of trips	26,119	29,219	28,314	18,760 [1]	19,634
No. of days operated	---	337,730	377,424	384,923	380,819
Total catch	307,272	283,968	363,240	307,673	267,836
Albacore	38,573	32,374	27,432	42,187	36,754
Bigeye tuna	95,712	78,245	64,228	69,639	72,285
Blue and black marlins	21,991	18,701	15,817	16,078	12,818
Bluefin tuna	16,710	15,700	13,256	18,046	18,882
Sail fish	3,002	3,156	10,202	7,796	8,052
Skipjack	---	259	65	142	79
Striped marlin	12,366	20,489	17,055	16,022	15,575
Sward fish	15,897	14,503	14,344	16,544	14,711
Yellowfin tuna	56,561	57,483	56,910	69,808	43,930
Others	46,460	43,058	43,931	51,411	44,750
Skipjack pole-and-line					
No. of trips	248,873	148,147	162,667	173,965	180,464
No. of days operated	319,337	226,071	249,193	276,120	280,262
Total catch	158,103	183,601	194,848	252,073	213,110
Albacore	23,826	10,121	14,772	22,830	30,481
Bigeye tuna	---	---	---	263	59
Skipjack	94,757	136,081	127,436	212,985	165,492
Yellowfin tuna	---	---	---	208	231
Others	39,520	37,399	52,640	15,787	16,847
Spuid angling					
No. of trips	1,783,520	1,778,283	1,802,686	1,956,797	2,054,164
No. of days operated	1,797,670	1,797,135	1,827,871	1,985,932	2,086,935
Total catch	580,209	237,163	386,955	378,502	471,958
Common squid	566,355	215,818	373,897	362,109	450,921
Others	13,854	21,345	13,058	16,393	21,037

Note 1/ Excluding the result of tuna long line fishery operated by fishing vessels less than 10 gross tons.

B. INDIAN OCEAN

Unit ; Day, Metric ton.

Item	1963	1964	1965	1966	1967
Mother ship type tuna long line					
No. of trips	17	15	19	24	35
No. of days operated	2,789	2,382	1,880	2,245	3,825
Total catch	17,245	11,604	11,807	15,482	21,252
Albacore	2,174	1,473	1,349	681	1,329
Bigeye tuna	3,607	2,893	2,608	4,052	4,912
Blue and black marlins	1,061	848	823	1,009	1,382
Bluefin tuna	2	28	67	2	166
Sailfish	302	170	214	223	478
Sharks	---	734	464	777	1,455
Striped marlin	542	414	640	1,141	1,898
Swordfish	227	198	118	229	366
Yellowfin tuna	7,774	4,683	5,067	7,088	8,505
Others	1,556	163	457	280	761
Tuna long line					
No. of trips	520	552	650	521	598
No. of days operated	---	48,012	31,104	25,832	39,272
Total catch	82,716	69,823	78,846	71,912	96,042
Albacore	13,454	13,790	12,894	11,688	13,888
Bigeye tuna	11,587	10,524	12,851	13,370	16,794
Blue and black marlins	3,956	3,849	4,925	4,145	4,650
Bluefin tuna	23,213	22,011	21,628	13,402	27,645
Sailfish	343	395	802	578	1,530
Sharks	2,081	3,390	1,975	1,952	2,835
Striped marlin	1,630	1,521	2,778	2,591	3,668
Swordfish	781	1,056	1,421	1,012	1,736
Yellowfin tuna	18,895	12,585	15,793	20,093	18,854
Others	6,776	702	3,779	3,081	4,442

C. ATLANTIC OCEAN

Unit ; Day, Metric ton.

Item	1963	1964	1965	1966	1967
Large trawl					
No. of trips	208	324	408	394	542
No. of days operated	4,351	10,214	17,001	15,911	20,796
Total catch	93,920	127,983	164,772	178,445	266,835
Sea breams	19,602	9,925	2,708	2,900	2,143
Octopuses	---	10,448	33,350	22,586	54,845
Squids and cuttlefishes	20,292	20,336	38,629	33,085	40,458
Shrimps	106	310	-	466	439
Others	53,920	86,964	90,085	119,408	168,950
Mother ship type tuna long line					
No. of trips	65	75	75	57	26
No. of days operated	8,185	10,272	6,651	5,356	2,175
Total catch	41,823	54,590	54,850	38,309	18,257
Albacore	11,276	16,736	13,009	9,751	3,708
Bigeye tuna	6,022	7,956	12,056	8,219	4,636
Blue and black marlins	3,677	3,391	2,484	1,589	580
Bluefin tuna	3,074	6,158	4,255	1,071	379
Sailfish	430	648	891	1,078	387
Sharks	---	1,306	1,753	1,773	398
Striped marlin	914	1,733	1,903	1,352	221
Swordfish	579	823	1,188	916	389
Yellowfin tuna	14,860	14,615	16,203	11,809	7,228
Others	991	1,224	1,108	751	331
Tuna long line					
No. of trips	250	329	462	271	140
No. of days operated	---	34,402	26,067	17,091	7,633
Total catch	68,065	69,476	86,030	49,292	23,449
Albacore	18,416	22,715	29,625	18,533	11,164
Bigeye tuna	8,468	9,380	16,482	9,423	3,749
Blue and black marlins	4,923	4,199	3,267	1,782	493
Bluefin tuna	4,735	6,468	5,357	1,800	512
Sailfish	305	522	1,580	766	292
Sharks	653	1,292	2,157	1,994	578
Striped marlin	1,504	1,762	2,728	1,650	447
Sword fish	577	1,165	1,188	1,042	365
Yellowfin tuna	22,857	20,491	20,416	9,965	4,519
Others	5,627	1,482	3,230	2,337	1,330

8. WHALINGS

Item	Antarctic 1]	North Pacific	Coastal		Total
	Factory ship type	Factory ship type	Large whale type	Small whale type	
Number of whales killed					
Blue whale	-	-	-	-	-
Fin whale	368	844	95	-	1,307
Humpback whale	-	-	-	-	-
Sei whale	8,694	3,474	557	-	12,725
Sperm whale	396	3,000	2,635	-	6,031
Mink whale	1	-	-	285	286
Bottlenose whale	-	-	-	107	107
Pilot whale	-	-	-	237	237
Others	-	-	-	395	395
Total	**9,459**	**7,318**	**3,287**	**1,024**	**21,088**
(Blue Whale Unit)	1,633	1,001	140	-	2,774
Products in metric ton					
Whale oil Sperm	1,996	21,110	9,962	-	33,068
Baleen	31,051	16,073	1,256	-	48,380
Others	-	-	-	390	390
Whale meat Frozen ..	102,587	48,111	-	-	150,698
Salted	2,868	3,475	-	-	6,343
Others	-	-	10,871	1,030	11,901
Liver oil	-	-	-	-	-
Other products	3,542	2,566	6,317	412	12,833
Value of product ($1,000)	42,056	22,944	4,611	472	70,083

Note ; Antarctic whaling is counted in the year when the whaling is finished.

9. VALUE OF EXPORTS AND

Exports

Year	Frozen			Salted and dried	Canned		
	Marlins	Tunas	Others		Jack mackerel	Salmons	Saury
1958	31,992		10,939	5,984	---	68,608	6,385
1959	36,641		10,598	5,716	---	64,852	4,940
1960	40,351		11,295	5,831	---	57,369	5,786
1961	45,780		11,122	5,613	---	37,094	2,187
1962	61,915		18,863	5,656	---	91,231	5,628
1963	4,808	46,965	20,854	5,664	3,073	45,338	8,497
1964	5,264	56,736	25,069	6,395	4,847	42,524	9,136
1965	6,722	52,369	29,743	6,118	4,628	60,959	3,339
1966	6,711	81,672	29,788	8,033	5,367	38,240	5,048
1967	4,722	45,364	32,833	8,000	3,228	46,332	1,910

Imports

Year	Living animals	Fresh and frozen				Salted and dried	Raw agar-agar
		King mackerel	Shrimps	Whale meats	Others		
1958	---	-	749	-	404	366	-
1959	---	-	244	-	940	831	-
1960	---	-	652	-	1,961	1,392	1,128
1961	---	-	6,970	-	1,454	1,607	1,887
1962	---	2,453	6,169	2,521	1,762	2,294	1,640
1963	---	2,213	23,470	2,110	3,739	3,964	1,786
1964	2,853	3,098	31,437	4,568	11,242	7,329	1,394
1965	1,486	4,937	35,938	3,699	15,185	9,979	1,562
1966	2,587	4,793	60,085	4,697	22,331	8,786	5,342
1967	3,625	4,043	79,733	7,467	26,678	17,098	7,118

IMPORTS BY COMMODITY

Unit ; Thousand dollars.

			Oil and fat				
Tuna	Crabs	Others	Whale Oil	Others	Pearls	Others	Total
23,267	12,815	11,480	19,784	5,517	17,938	6,762	**221,472**
26,936	15,115	12,456	18,190	5,360	24,219	8,381	**233,405**
25,377	11,660	16,069	19,200	4,465	30,480	6,052	**233,934**
29,734	11,856	18,155	21,380	3,373	35,787	6,533	**228,614**
33,089	10,807	16,483	15,064	2,718	41,843	9,665	**312,961**
35,206	10,967	19,246	25,308	1,310	47,290	8,127	**282,653**
37,599	12,875	21,440	22,138	1,295	55,079	10,675	**311,074**
35,719	12,587	19,255	20,266	650	64,217	13,973	**330,548**
47,559	10,767	31,251	12,240	695	64,697	19,981	**362,051**
51,510	10,323	38,641	8,172	990	55,036	19,073	**326,142**

Unit ; Thousand dollars

Fish meals	Pearls	Oil and fat	Prepared	Dried seaweeds	Shells	Others	Total
-	---	---	---	339	678	---	**3,351**
-	---	---	---	985	1,869	---	**7,710**
2,222	---	---	---	1,561	3,413	---	**15,341**
2,676	---	---	---	814	2,084	---	**22,704**
5,033	1,269	318	606	1,190	1,920	2,529	**29,704**
11,067	1,163	177	1,077	1,200	2,930	4,509	**59,405**
13,663	1,725	177	1,036	5,247	2,130	3,729	**89,628**
16,381	2,514	192	3,558	0	4,414	4,105	**103,950**
18,491	3,467	1,111	6,221	9,651	9,808	10,218	**167,588**
13,519	2,205	825	6,605	10,900	5,257	6,499	**191,572**

10. VALUE OF EXPORTS AND

Exports

Year	Australia	Canada	Hong Kong	Italy	Nether-land	Phillip-pines	Puerto Rico
1958	---	---	---	---	---	---	---
1959	---	---	---	---	---	---	---
1960	4,933	3,944	4,567	6,114	8,731	5,531	1,997
1961	6,078	4,147	4,964	8,831	17,572	2,381	233
1962	5,410	5,433	5,574	13,414	8,019	2,138	4,720
1963	5,414	4,707	6,593	16,583	16,211	8,170	8,056
1964	7,433	5,141	11,422	14,233	10,916	11,658	14,722
1965	9,424	6,130	6,424	16,844	11,572	9,299	13,583
1966	8,675	6,977	8,203	26,923	11,127	13,204	19,997
1967	8,521	6,823	7,239	17,255	12,449	19,623	11,277

Imports

Year	Australia	Canada	Chile	China (Mainland)	Hong Kong	Mexico	Peru
1958	---	---	---	---	---	---	---
1959	---	---	---	---	---	---	---
1960	242	122	286	772	356	97	1,767
1961	350	194	597	1,375	1,072	4,806	2,531
1962	707	285	407	3,217	1,572	2,021	3,516
1963	2,164	620	282	7,213	5,302	7,755	8,041
1964	3,127	794	499	16,049	3,841	9,622	11,124
1965	3,311	1,141	2,108	18,219	5,836	10,372	8,219
1966	4,948	1,985	2,287	31,946	7,778	12,037	11,848
1967	5,747	2,737	3,273	19,524	8,645	20,350	5,140

IMPORTS BY COUNTRY

Unit ; Thousand dollars.

Republic of Germany	Ryukyu Island	Spain	Swizer-land	United Kingdom	U.S.A.	Others	Total
---	---	---	---	---	---	---	221,472
---	---	---	---	---	---	---	233,405
12,144	3,256	---	5,908	54,869	75,061	46,879	233,934
10,617	3,650	---	6,800	30,511	86,044	46,786	228,614
12,082	3,289	286	9,443	92,719	106,965	43,468	312,960
13,441	3,792	1,446	11,069	48,940	87,949	50,282	282,653
18,788	4,744	801	10,711	45,966	90,219	64,320	311,074
27,138	6,041	3,326	12,522	62,944	89,277	56,024	330,548
22,804	7,137	4,156	13,637	41,221	117,637	60,353	362,051
19,632	7,668	2,852	13,490	48,749	91,928	58,637	326,143

Unit ; Thousand dollars

Republic of Korea	Ryukyu Island	Spain	Thailand	U.S.A.	U.S.S.R.	Others	Total
---	---	-	---	---	---	---	3,351
---	---	-	---	---	---	---	7,710
4,586	1,208	-	17	3,497	-	2,391	15,341
3,694	803	0	39	1,942	-	5,301	22,704
7,438	885	14	94	1,470	148	7,930	29,704
8,329	1,948	1,188	1,186	3,454	659	11,264	59,405
15,913	1,230	2,788	3,049	5,933	2,719	12,939	89,627
15,994	1,288	5,761	3,899	7,147	4,288	16,364	103,947
27,915	3,529	7,117	7,508	17,396	6,278	25,016	167,588
32,415	5,601	5,033	10,679	14,684	7,885	49,860	191,573

11. VALUE OF EXPORTS AND IMPORTS

(By country and by commodity)

Exports

Destination	Frozen			Salted and dried	Canned		
	Marlins	Tuna	Others		Mac-kerels	Salmons	Saury
Australia	-	7	1,622	6	95	4,193	0
Belgium	0	-	557	0	396	1,136	294
Canada	29	591	318	64	4	5	0
Ceylon	-	-	12	-	8	-	116
China(Taiwan)	-	-	15	315	-	-	-
France	-	141	94	6	70	657	-
Ghana	-	94	648	-	568	17	-
Greece	6	-	312	-	656	37	115
Hong Kong	-	5	127	3,291	52	0	-
India	-	-	-	-	-	1	-
Italy	34	12,732	2,104	-	33	34	85
Lebanon	-	-	229	-	62	-	0
Liberia	-	-	692	-	57	0	-
Malaysia	23	731	265	35	912	3	64
Netherland	-	-	1,314	0	399	1,786	61
Philippines	-	-	56	4	16,721	22	26
Puerto Rico	-	11,227	-	-	-	-	-
Republic of Germany	-	5	1,912	8	305	55	76
Ryukyu Islands	4	1	2,670	1,803	527	9	34
Singapore	-	-	99	923	1,330	8	25
Spain	-	92	616	-	-	0	-
Sweden	-	18	68	-	-	50	-
Switzerland	-	-	-	2	2	39	-
United Kingdom	-	1	4,039	6	62	37,261	-
U. S. A.	4,370	13,599	6,883	1,289	1,151	316	67
Yugoslavia	-	24	247	-	9	-	-
Others	256	6,096	7,933	248	4,858	703	947
Total	4,722	45,364	32,832	8,000	28,277	46,332	1,910

OF FISHERY PRODUCTS, 1967

Unit ; Thousand dollars.

Tunas	Crabs	Otheas	Oil and fat		Pearls	Others	Total
			Whale oil	Others			
43	473	444	53	8	1,032	545	8,521
1,631	967	20	-	-	499	25	5,525
3,152	130	1,368	-	53	822	287	6,823
-	-	-	-	-	0	1	137
-	-	0	0	17	39	832	1,218
74	2,333	14	13	47	1,971	150	5,570
14	0	0	-	-	-	3	1,344
110	47	21	-	-	3	26	1,333
8	51	219	-	8	3,230	248	7,239
3	1	1	-	-	1,020	89	1,115
109	39	265	-	0	979	841	17,255
946	9	2	-	0	829	15	2,092
8	-	0	-	-	-	2	759
5	7	155	-	-	6	160	2,336
1,325	419	16	6,536	17	307	269	12,449
121	-	2,179	-	7	0	487	19,623
-	2	-	-	-	45	3	11,277
8,183	111	96	-	10	8,255	616	19,632
756	41	476	-	4	80	1,263	7,668
16	25	366	-	0	348	545	3,685
-	44	51	-	3	2,041	5	2,852
242	325	7	-	7	583	147	1,447
1,490	10	4	-	-	11,917	26	13,490
2,041	2,608	271	-	4	1,011	1,445	48,749
26,884	2,435	6,829	1,566	277	17,398	8,864	91,928
-	-	-	-	-	-	124	404
4,349	246	789	4	528	2,621	2,064	31,642
51,510	**10,323**	**13,593**	**8,172**	**990**	**55,036**	**19,082**	**326,143**

Imports

Origin	Living animals	Fresh and Frozen				Salted and dried	Raw ager-ager
		King mac-kerel	Shrimps	Whale meats	Others		
Argentina	-	-	-	-	108	-	1,575
Australia	-	-	2,566	-	504	1	0
Canada	1	-	16	460	14	2,240	-
Chile	-	-	-	403	-	-	2,868
China(Mainland) ...	-	1,405	10,313	-	2,901	3,697	0
China(Thaiwan)	277	3	2,049	-	1,029	47	10
Greece	-	-	21	-	96	-	-
Hong Kong	843	-	7,411	-	175	0	7
India	-	-	4,613	-	-	3	92
Indonesia	-	-	38	-	-	2	216
Ice land	-	-	-	-	1	21	-
Korea(North)	-	-	178	-	5	685	-
Malaysia	-	-	1,858	-	-	-	-
Mexico	2	-	19,440	-	-	2	666
Norway	-	-	-	4,654	4	45	-
Packistan	-	-	2,729	-	-	-	-
Peru	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	2
Republic of Korea..	1,002	2,623	2,766	70	5,130	3,054	-
Ryukyu Island	286	-	-	-	4,315	171	20
Saudi Arabia	-	-	999	-	-	-	-
Singapore	394	-	245	-	-	1	2
South Vietnum	-	-	747	-	-	-	-
Spain	-	1	2	-	4,388	-	-
Thailand	227	-	10,334	-	38	-	-
United Kingdom ...	7	-	-	-	54	2	-
U. S. A.	501	-	1,915	-	1,119	6,653	-
U.S.S.R.	-	-	3,213	1,546	1,046	462	-
Others	85	11	8,279	334	5,748	12	1,660
**Total ..... **	**3,625**	**4,043**	**79,732**	**7,467**	**26,675**	**17,098**	**7,118**

Unit ; Thousand dollars

Fish meals	Pearls	Oil and fat	Prepared	Dried Sea-weeds	Shells	Others	Total
10	-	-	-	-	-	14	1,707
14	2,027	-	458	-	141	36	5,747
-	-	-	5	-	-	1	2,737
-	-	-	-	-	-	2	3,273
100	-	-	1,102	-	3	3	19,524
-	-	33	24	-	4	148	3,624
-	-	-	-	-	-	424	541
-	54	7	25	-	117	6	8,645
-	3	-	18	-	2	3	4,734
-	11	-	1	-	251	7	526
-	-	433	10	-	-	1	466
-	-	-	5	-	-	9	882
-	16	-	-	-	2	7	1,883
-	-	-	144	-	93	3	20,350
-	-	62	106	-	-	44	4,915
-	-	-	11	-	-	-	2,740
5,140	-	-	-	-	-	-	5,140
-	-	30	9	-	-	189	230
-	3	54	2,509	10,900	1	4,303	32,415
-	-	-	187	-	33	589	5,601
-	-	-	-	-	-	-	999
-	-	-	-	-	15	49	706
-	-	-	-	-	-	-	747
-	-	131	1	-	-	510	5,033
-	73	-	3	-	2	2	10,679
-	-	-	9	-	0	4	76
-	0	9	210	-	4,228	49	14,684
1,001	-	64	550	-	-	3	7,885
7,253	18	2	1,218	-	365	99	25,084
13,518	**2,205**	**825**	**6,605**	**10,900**	**5,257**	**6,505**	**191,573**

12. FOOD BALANCE SHEET ON FISHERY PRODUCTS

Unit ; Thousand metric tons.

Description	1963	1964	1965	1966	1967
[FISH AND SHELLFISH] (live weight base)					
Domestic production					
For domestic consumption	5,675	5,273	5,822	5,899	6,590
Fresh and frozen	2,054	1,560	1,870	1,756	1,924
Dried, salted and smoked	1,353	1,233	1,316	1,264	1,298
Kneaded	1,177	1,248	1,364	1,604	1,733
Fish sausage	227	251	269	252	235
Canned	115	87	110	118	164
Feeds	749	898	893	906	1,236
For exports	598	716	680	767	727
Fresh and frozen	224	292	260	266	208
Canned	339	369	339	401	443
Others for food use	18	26	19	25	22
Feeds	17	29	62	75	54
Total	**6,273**	**5,989**	**6,502**	**6,666**	**7,312**
Imports					
For food use	37	85	119	170	192
For feeds	401	487	536	455	413
Total	**438**	**572**	**655**	**625**	**605**
Domestic supply					
For food use	4,963	4,465	5,048	5,163	5,546
Domestic production	4,926	4,380	4,929	4,993	5,354
Imports	37	85	119	170	192
For feeds	1,150	1,380	1,429	1,361	1,649
Domestic production	749	893	893	906	1,236
Imports	401	487	536	455	413
Total	**6,113**	**5,845**	**6,477**	**6,524**	**7,195**
[WHALE]					
Domestic production					
For domestic consumption	184	157	184	176	151
For exports	9	41	34	9	21
Total	**193**	**198**	**218**	**185**	**172**
Imports					
Total	**12**	**24**	**19**	**21**	**29**
Domestic supply					
For food use	196	181	203	176	180
For feeds	0	-	-	21	0
Total	**196**	**181**	**203**	**197**	**180**

(Continued) Unit ; Thousand metric tons.

Description	1963	1964	1965	1966	1967
[SEAWEED] (dried weight base)					
Domestic production					
For domestic consumption	84	71	80	92	105
For exports	1	1	1	2	2
Total	**85**	**72**	**81**	**94**	**107**
Imports					
Total	**10**	**10**	**12**	**21**	**18**
Domestic supply					
For food use	70	62	70	81	92
For feeds	24	19	22	32	31
Total	**94**	**81**	**92**	**113**	**123**
Par capita food supply (Unit; Kgs)					
Fish and shellfishes	51.6	45.9	51.4	52.1	55.3
Whales	2.0	1.9	2.1	1.8	1.8
Seaweeds	0.7	0.6	0.7	0.8	0.9
Total	**54.3**	**48.4**	**54.2**	**54.7**	**58.0**

13. SEA—FISHERY WORKERS, 1965—1967

Unit : 1,000 persons.

Age	1965	1966	1967			
			Total	Distant water fisheries	Coastal and off shore fisheries	Shallow sea cultures
Men						
15 - 19 years old	27.5	29.5	27.0	1.2	18.7	3.7
20 - 29 years old	89.1	82.0	79.3	15.0	49.8	14.1
30 - 39 years old	137.6	134.8	129.8	13.8	90.2	25.7
40 - 49 years old	95.3	97.6	100.6	6.4	72.8	21.3
50 - 59 years old	80.5	78.9	77.0	2.4	59.1	15.5
60 years old and over	72.2	72.8	71.6	0.6	59.0	11.9
Total	502.5	495.7	485.5	42.6	350.3	92.4
Women						
15 - 19 years old	2.9	2.8	2.7	-	1.1	1.4
20 - 29 years old	18.2	16.6	14.7	-	5.8	8.8
30 - 39 years old	34.6	34.9	33.5	-	16.0	17.5
40 - 49 years old	28.7	30.4	30.2	-	14.5	15.6
50 - 59 years old	16.7	17.9	17.6	-	9.4	8.2
60 years old and over	8.2	8.7	8.5	-	5.3	3.1
Total	109.5	111.6	107.3	-	52.4	54.9
Grand Total	612.0	607.4	592.8	42.6	402.7	147.4

Note ; Excluding the number of workers who worked less than 29 days in a year.

14. POWER OF FISHING VESSELS, 1965—1967

Size	Number of fishing vessels			Gross tonnages		
	1965	1966	1967	1965	1966	1967
Marine						
Non-powered	163,988	153,025	139,283	136,652	121,440	106,831
Powered	217,156	226,045	239,083	2,054,128	2,128,741	2,255,279
Less than 5 G.T.	191,463	200,278	213,029	336,870	350,809	370,666
5 ~ 9 G.T.	8,181	8,204	8,448	61,023	61,604	63,699
10 ~ 49 G.T.	12,183	12,084	12,013	284,762	286,437	282,145
50 ~ 99 G.T.	3,510	3,447	3,353	286,258	282,462	276,337
100 ~ 199 G.T.	742	891	971	110,368	134,265	148,667
200 ~ 499 G.T.	824	867	953	258,624	273,184	304,473
500 ~ 999 G.T.	97	106	128	71,165	78,613	95,519
1,000 G.T. and over	156	168	188	645,058	661,366	713,772
Fresh water						
Non-powered	17,887	16,143	14,933	8,926	8,023	7,354
Powered	4,219	4,348	4,703	5,519	5,542	6,048
Less than 5 G.T.	4,212	4,342	4,700	5,461	5,491	6,020
5 G.T. and over	7	6	3	58	51	28

15. ABSTRACT OF MISCELLANEOUS STATISTICS CONCERNED WITH FISHERY INDUSTRY

T.M.T. ; Thousand metric tons.
K. ; Kg.
D. ; Dollar.
T.N. ; Thousand numbers.
No. ; Number.

	Year / Unit	1963	1964	1965	1966	1967
DISTRIBUTIONS						
Processed fishery products	T.M.T.	3,229	3,382	3,927	4,058	4,385
Processed on land	T.M.T.	2,494	2,563	3,058	3,289	3,509
Processed on board	T.M.T.	735	819	869	766	876
Wholesale marckets	No.	---	1,821	---	---	2,091
Fish retail shops	T.N.	---	52	---	---	---
Management units of fishery processor	T.N.	214	202	204	201	201
Cold-storage plants	No.	2,895	2,939	2,995	3,003	3,050
Cold-storage trains of Japan National Railway	No.	4,541	4,414	4,894	4,925	5,226
Transportation of fishery products	T.M.T.	28,729	29,791	29,151	34,909	39,419
CONSUMPTION						
Consumption of fishery products in a year per a person.						
City (over 50,000 persons)	K.	19.2	19.0	18.9	19.5	17.2
Village (less than 50,000 persons)	K.	16.0	16.6	17.0	18.4	20.3
Consumed value of fishery products in a year per houshold.						
City (over 50,000 persons)	D.	78.6	85.7	94.8	100.7	109.8
Village (less than 50,000 persons)	D.	60.7	66.7	74.8	83.0	95.0
INDEX						
Production index		97.0	93.4	100.0	100.3	108.5
Wholesale marcket price index at landing ports		90.2	99.9	100.0	111.6	117.7
Wholesale marcket price index at consuming cities		86.1	92.3	100.0	107.9	125.6
Fish price index at retail shops						
City (over 50,000 persons)		89.5	92.9	100.0	105.1	109.2
Village (less than 50,000 persons)		78.8	89.4	100.0	101.3	112.7

APPENDIX 1. CLASSIFICATION OF TYPE OF SEA-FISHERIES.

Classification	Classification shown in this bulletin	Classification published by Ministry of Agriculture and Forestry
Gill nets	King crab gill net	Factory ship type king crab gill net
	Salmon drift gill net	Factory ship type salmon drift gill net (Distant waters)
		Salmon drift gill net of one boat operation, (Coastal)
	Other gill nets	Sardine drift gill net, Herring gill net, and other.
Surrounding nets	Purse seines	Purse seine of one-boat and two-boats operation.
	Other surrounding nets	Semi-surrounding net.
		Other surrounding nets
Lift nets	Saury stick-held dip net	Saury stick-held dip net
	Other lift nets	Atka mackerel square lift net
		Other lift nets
Trawls	Large trawls	Factory ship type trawl (Berring sea)
		Factory ship type trawl (Okhotsk sea)
		Otter trawl on Distant waters
		Otter trawl in Bering sea
		Otter trawl, west of 130°E
		Large trawl, west of 130°E
	Medium trawls	Medium trawl of one-boat and two boats operation.
	Small trawls	Small trawls
Set nets	Set nets	Large set nets
		Small set nets
Long lines	Tuna long line	Mother ship type tuna long line
		Tuna long line operated on Atlantic Ocean.
		Tuna long line based at foreign ports.
		Tuna long line based at domestic ports.
	Other long lines	Alaska pollack long line, Salmon long line, and other
Anglings	Skipjack pole-and-line	Skipjack pole-and-line (Distant waters and Coastal)
	Squid angling	Squid angling
	Other anglings	Mackerel pole-and-line, other kind of mackerel anglings, and other anglings.
Collectings	Shellish collectings	Shellfish collectings.
	Seaweed collectings	Seaweed collectings
Other fisheries	Others	Beach seine, "Patchi" and other haul seine, Dart, other fisheries.

APPENDIX 2. CLASSIFICATION OF FISHES

Classification shown in this bulletin (FAO)	Classification published by Ministry of Agriculture and Forestry.		
Freshwater fishes	Common carp Sweet fish	Crucian carp White bait	Pond-smelt Other freshwater fishes.
River eel	Eel		
Salmons, trouts, smelts, etc.	Chum salmon Brook trout	Cherry salmon Bull trout	Rainbow trout Other salmonidae spp.
Flounders, halibuts, soles, etc.	Bastard halibut "Sohachi" flounder Flathead flounder Other flatfishes	Dab Frog flounder Slime flounder	Arrow-toothed halibut Roundnose flounder Fluke
Cods, hakes, haddocks, etc.	Pacific cod	Alaska pollack	
Redfishes, basses, congers, etc.	Atka mackerel White croaker Croaker Sand lance Crimson sea bream Sharp toothed eel	Rock fishes Yellow croaker Gurnards Common sea bass Yellow sea bream	Sand fish Black croaker Lizard fish Red sea bream Black sea bream
Jacks, mullets, etc.	Dolphin fish Saury Mullets	Flying fish Scad Butter fish	Jack mackerel Yellowtail
Herrings, sardines, anchovies, etc.	Pacific herring Anchovy	Sardine Clupeicae larva	Round herring
Tunas, bonitos, skipjacks	Albacroe Yellow fin tuna Young tunas	Bigeye tuna Frigate mackerel	Blue fin tuna Skipjack
Mackerels, billfishes, Cutlessfishes, etc.	Black and white marlins Sailfish Spanish mackerel	Hairtail Striped marlin	Mackerels Broadbill swordfish
Sharks, rays, chimaeras.	Great blue shark Other sharks	Salmon shark Skates and rays	Dogfish
Unsorted and unidentified fishes.	Deep sea smelt	Other fishes	
Crustaceans.	Fresh water shrimps Other marine shrimps Blue crabs	Spiny lobster King crab Other crab	"Kuruma" prawn Red crab
Molluscs	Fresh water clams Top shell Hen clam Oysters Cuttlefishes	Other fresh water molluscs Hard clams Common scallop Other shellfishes Octopuses	Abalones Short necked clams "Mogai" clam Common squid
Sea-cucumbers, sea-urchins, acidians	Sea-cucumbers	Sea-urchins	
Turtles, frogs, etc.	Other marine animals		
Pearls, shells, sponges, etc.	Pearls (freshwater and marine cultured)		
Aquatic plants	Freshwater aquatic plants "Wakame" seaweed "Nori" seaweed	"Kombu" kelp Agar-agar Other seaweeds	

EXPLANATORY NOTES

1. Sources of statistics

Table No. 1 - 7	Statistics and Survey Division, Ministry of Agriculture and Forestry.
8	Fishery Agency, Ministry of Agriculture and Forestry.
9 - 11	Customs Division, Ministry of Finance.
12	Research and Analysis Division, Ministry's Secretariat, Ministry of Agriculture and Forestry.
13	Statistics and Survey Division, Ministry of Agriculture and Forestry.
14	Fishery Agency, Ministry of Agriculture and Forestry.
15	Statistics and Survey Division, Ministry of Agriculture and Forestry.
	Fishery Agency, Ministry of Agriculture and Forestry.
	Customs Division, Ministry of Finance.

2. Period of inquisition

As a principle, the statistics in this bulletin are inquired by the Calendar year but the figures of the whaling in the Antarctic Ocean are given for the "Whaling year" (from Nov. 1965 to Mar. 1966)

3. Units.

(1) The unit of weight is generally shown in metric ton, and any fraction less than 1 metric ton is discarded.

(2) The unit of value in this report is generally shown in million dollars or thousand dollars, excluding table 16, and any fraction less than 1 million dollars or 1 thousand dollars is discarded. The figures in this report are converted from Annual Report of Catch Statistics on Fishery and Aquiculture in 1967, as one dollar equal to 360 yen.

Consequently, in both weight and value, there may be some cases that the grand total does not always equal to the sum of respective figures.

4. Symbols

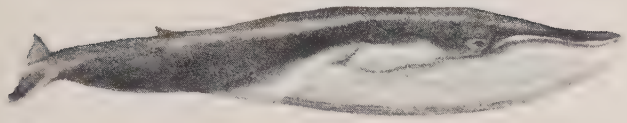
(0)	Means "Less than the unit amount"
(---)	Means "Unknown or not available"
(-)	Means "No record"

Illustration of Important Fishes in Japan

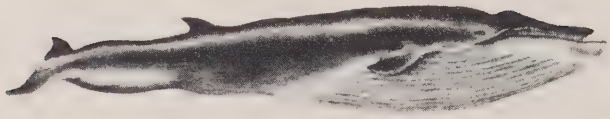
I Marine Fisheries

A Marine Mammals

Blue whale
Shironagasukujira
Balaenoptera masculas

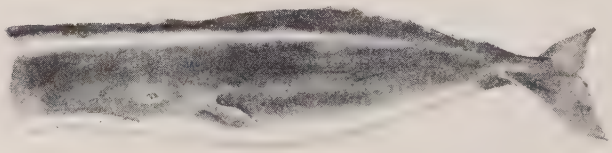


Fin whale
Nagasukujira
Balaenoptera physalus



Sei whale
Iwashikujira
Balaenoptera borealis

Sperm whale
Makkokujira
Physeter catodon



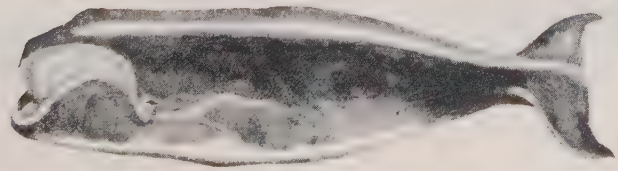
Mink whale
Koiwashikujira
Balaenoptera acuto-rostrata

Pilot whale
Gondokujira
Globicephalus melas

Killer Whale
Shachikujira
Grampus orca

(Dolphin)
Mairuka
Delphinus delphis delphis

Right whale
Semikujira
Balaena glacialis sieboldii

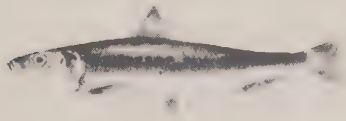


B Fishes

Herring
Nishin
Clupea pallasi

Scad
Muroaji
Decapterus Muroadsi

Sardine
Maiwashi
Sardinops melanosticta



Mackerel
Masaba
Scomber japonicus

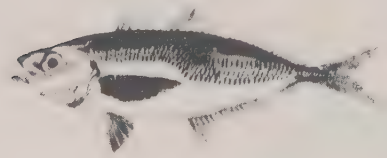
Round herring
Urumeiwashi
Etrumeus micropus

Saury (Saury-pike)
Samma
Cololabis saira

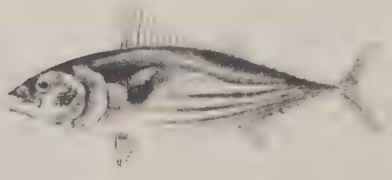
Anchovy
Katakuchiiwashi
Engraulis japonica

Yellowtail
Buri
Seriola quinqueradiata

Jack mackerel
Maaji
Trachurus japonicus

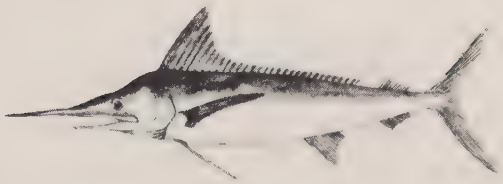


Skipjack
Katsuo
Katsuwonus pelamis



Frigate mackerel
Hirasoda
Auxis thazard

Striped marlin
Makajiki
Tetrapturus audax

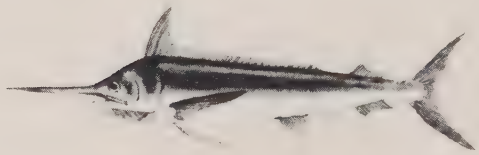


Bluefin tuna
Maguro
Thunnus thynnus orientalis

Broadbill swordfish
Mekajiki
Xiphias gladius

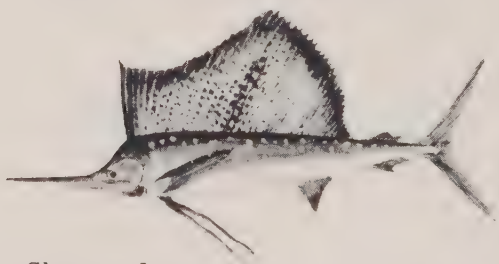
Albacore
Binnaga
Thunnus alalunga

Blue marlin
Kurokajiki
Makaira nigricans



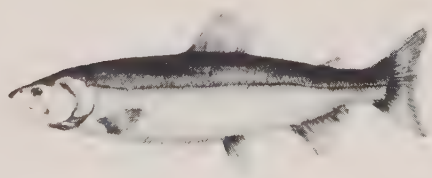
Bigeye tuna
Mebachi
Thunnus obesus

Sailfish
Bashokajiki
Istiophorus orientalis



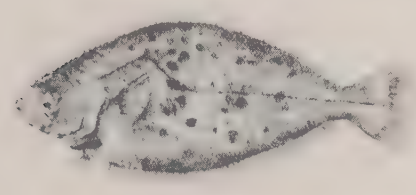
Yellowfin tuna
Kiwada
Thunnus albacares

Chum salmon
Sake (Shirozake)
Oncorhynchus keta

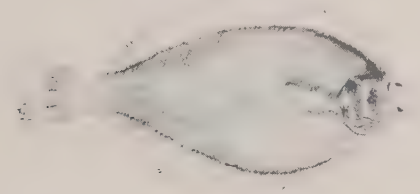


Cherry salmon
Sakuramasu
Oncorhynchus masou var. masou

Bastard halibut
Hirame
Paralichthys olivaceus

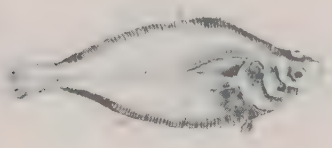


Dab (Flat fish)
Magarei
Limanda herzensteini

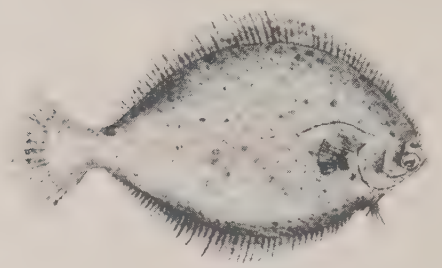


Arrow toothed halibut
Aburagarei
Atheresthes evermanni

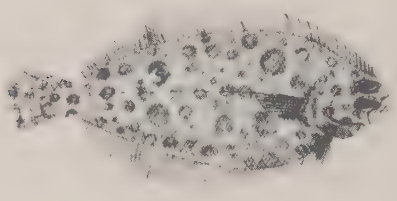
(Flat fish)
Sohachigarei
Cleisthenes pinetorum herzensteini



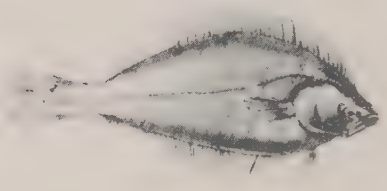
Frog flounder
Meitagarei
Pleuronichthys cornutus



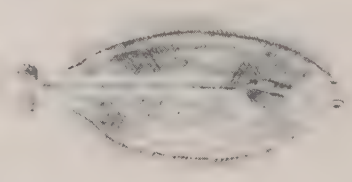
Roundnose flounder
Mushigarei
Eopsetta grigorjewi



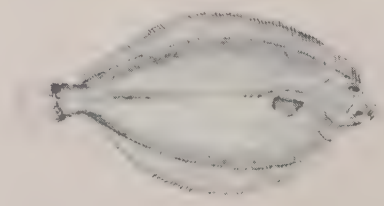
Flathead flounder
Akagarei
Hippoglossoides dubius



Slime flounder
Babagarei
Microstomus achne

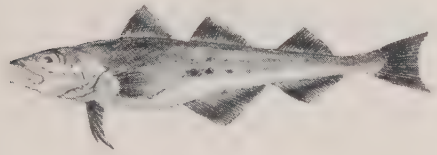


Fluke
Hireguro
Glyptocephalus stelleri

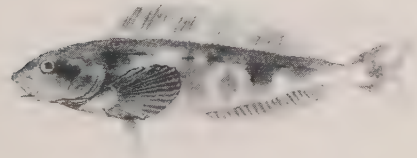


Cod
Madara
Gadus macrocephalus

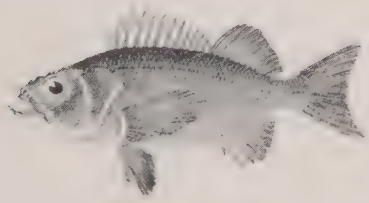
Alaska pollack
Suketodara
Theragra chalcogramma



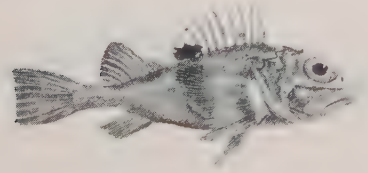
Atka mackerel
Hokke
Pleurogrammus azonus



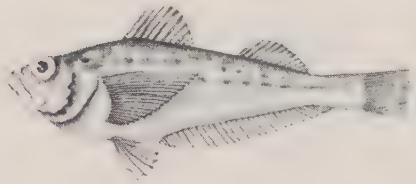
(Rock fish)
Sankomenuke
Sebastes flameus



(Rock fish)
Kichiji
Sebastolobus macrochir

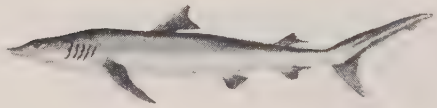


Sand fish
Hatahata
Arctoscopus japonicus



Deep sea smelt
Nigisu
Algentina semifasciata

Great blue shark
Yoshikirizame
Glyphis glaucus



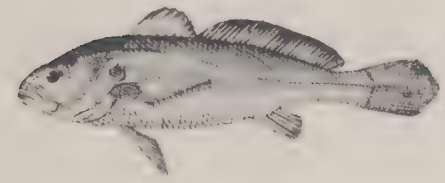
Salmon shark
Nezumizame
Lamna ditropis

Dog fish
Aburatsunozame
Squalus acanthias

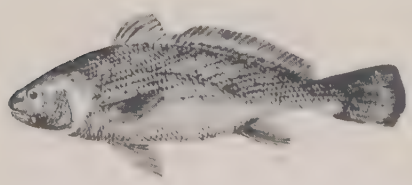
White croaker
Shiroguchi
Argyrosomus argentatus

Yellow croaker
Kiguchi
Pseudosciaena manchurica

Black croaker
Kuroguchi
Argyrosomus [illegible]

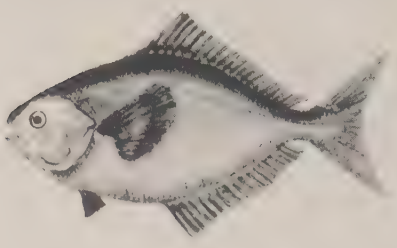


(Croaker)
Honnibe
Miichthys imbricatus



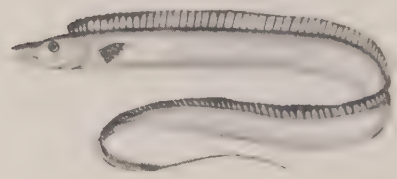
Lizard fish
Maeso
Saurida argyrophanes

Butter fish
Ibodai
Psenopsis anomala

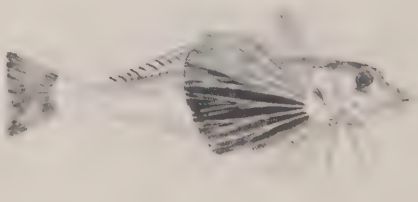


Sharp toothed eel
Hamo
Muraenesox cinereus

Hairtail
Tachiuo
Trichiurus lepturus

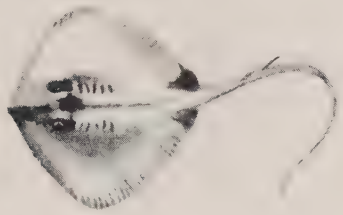


(Gurnard)
Hobo
Chelidonichthys kumu

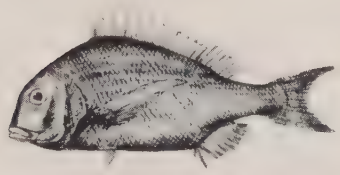


(Gurnard)
Kanagashira
Lepidotrigla microptera

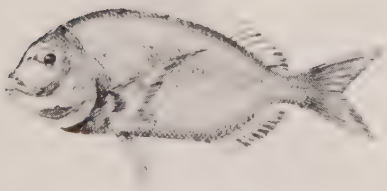
Stingray
Akaei
Dasyatis akajei



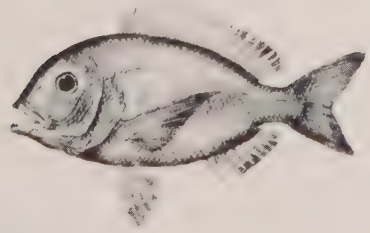
Red sea bream
Madai
Chrysophrys major



Crimson sea bream
Chidai
Evynnis japonica



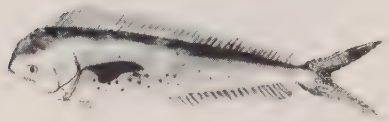
Yellow sea bream
Kidai
Taius tumifrons



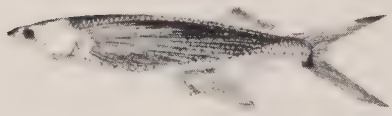
Black sea bream
Kurodai
Mylio macrocephalus

Spanish mackerel
Sawara
Scomberomorus niphonius

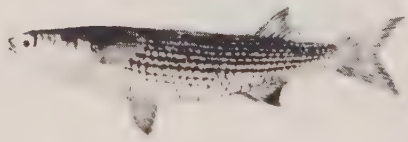
Dolphin fish
Shiira
Coryphaena hippurus



Flyingfish
Tobiuo
Prognichthys agoo

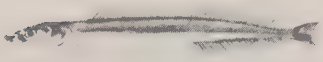


Mullet
Bora
Mugil cephalus



Common sea bass
Suzuki
Lateolabrax japonicus

Sand lance
Ikanago
Ammodytes personatus



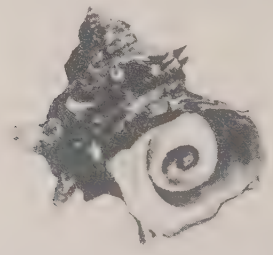
Striped pigfish
Isaki
Parapristipoma trilineatum

(Globe fish)
Torafugu
Fugu rubripes

C Shellfishes

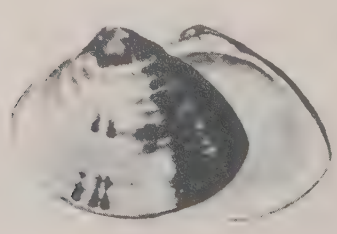
Abalone
Awabi
Haliotis gigantea

Top shell
Sazae
Turbo cornutus

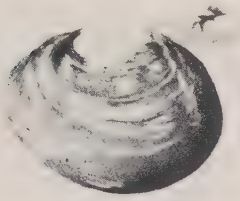


Short necked clam
Asari
Venerupis Philippinarum

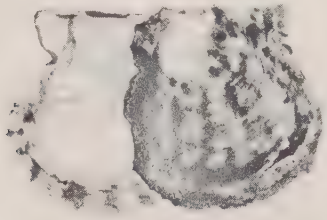
Hard clam
Hamaguri
Meretrix lusoria



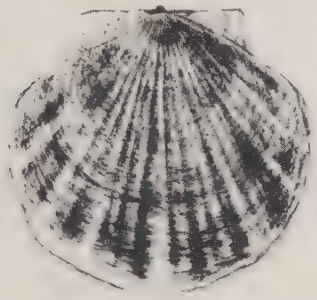
Hen clam
Hokkigai
Mactra sachalinensis



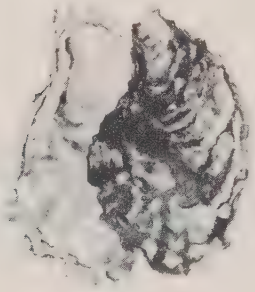
(Pearl Oyster)
Akoyagai
Pinctada martensii



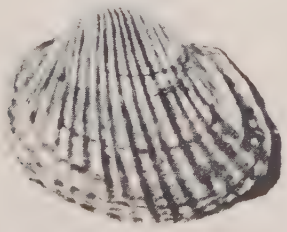
Common scallop
Hotategai
Pecton yessoensis



(Oyster)
Magaki
Crassostrea gigas



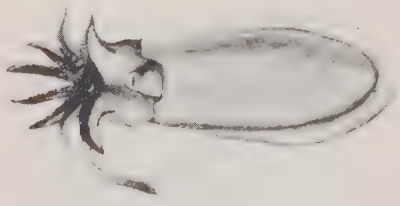
"Mogai" clam
Sarubo
Anadara subcrenata



D Other Marine Animals

Common squid
Surumeika
Ommastrephes sloani pacificus

Cuttlefish
Maika
Sepiella maindronide



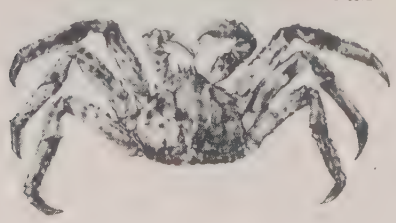
Octopus (Devilfish)
Madako
Octopus vulgaris

Spiny lobster
Iseebi
Panulirus japonicus

(Prawn)
Kurumaebi
Penaeus japonicus

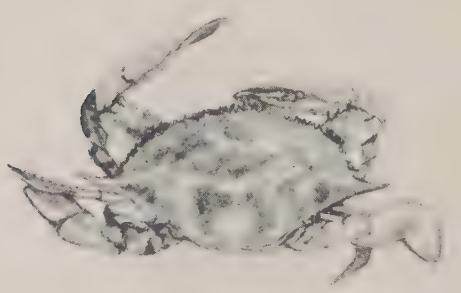
(Shrimp)
Akaebi
Metapenaeopsis barbatus

King crab
Tarabagani
Paralithodes camtschaticus

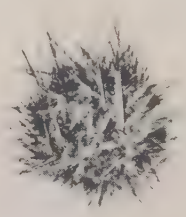


Queen crab, Tanner crab
Zuwaigani
Chionoecetes opilio

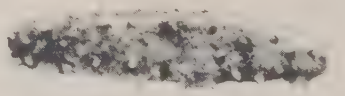
Blue crab
Gazami
Neptunus trituberculatus



(Sea urchin)
Murasakiuni
Heliocidaris crassispind



(Sea cucumber)
Manamako
Stichopus japonicus

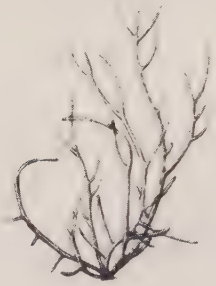


(Jelly fish)
Bizenkurage
Rhopilema esculenta

E Seaweeds

(Kelp)
Makonbu
Laminaria japonica

(Seaweed)
Honfunori
Gloiopeltis tenax



(Seaweed)
Wakame
Undaria pinnatifida

(Seaweed)
Arame (Kajime)
Eisenia bicyclis

Agar-agar
Tengusa (Makusa)
Gelidium Amansii

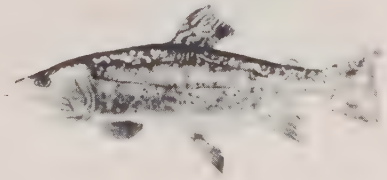
Laver (Seaweed "Nori")
Asakusanori
Porphyra tenera

II Inland Water Fisheries

A Fishes

Rainbow trout
Nijimasu
Salmo gairdnerii irideus

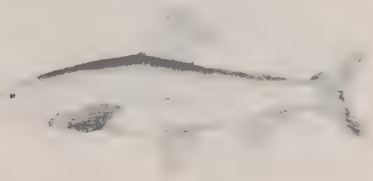
Brook trout
Kawamasu
Salvelinus fontinalis fontinalis



Bull trout (mountain trout)
Iwana
Salvelinus pluvius

Pond-smelt
Wakasagi
Hypomesus olidus

Sweet fish
Ayu
Plecoglossus altivelis



White bait
Shirauo
Salangichthys microdon

Common carp
Koi
Cyprinus carpio

Crucian carp
Funa
Carassius auratus

(Minnow)
Ugui
Tribolodon hakonensis hakonensis

(Minnow)
Oikawa
Zacco platypus

Eel
Unagi
Anguilla japonica

Loach
Dojo
Misgurnus anguillicaudatus

Goby
Mahaze
Achanthogobius flavimanus

Sculpin
Kajika
Cottus pollux

(Shiner)
Tanago
Acheilognathus moriokae

(Minnow)
Honmoroko
Gnathopogon caerulescens

Cat fish
Namazu
Parasilurus asotus

Lamprey
Kawayatsume
Entosphenus japonicus

B Others

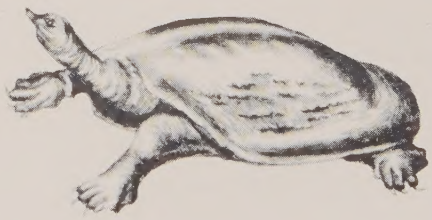
(Shrimp)
Nukaebi
Paratya compressa improvisa

Opossum shrimp
Isazaami
Neomysis intermedia

Bull-frog
Ushigaeru
Rana catesbiana

(Corbicula)
Yamatoshijimi
Corbicula japonica

Snapping turtle
Suppon
Amyda japonica



(Aquatic plant)
Kawanori
Prasiola japonica